

PRODUCT MONOGRAPH
INCLUDING PATIENT MEDICATION INFORMATION

PrFABHALTA®

iptacopan capsules

Hard capsules, 200 mg, Oral

Selective immunosuppressants

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FABHALTA is a registered trademark.

RECENT MAJOR LABEL CHANGES

None at the time of the most recent authorization.

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Sections or subsections that are not applicable at the time of authorization are not listed.

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PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

FABHALTA® (iptacopan capsules) is indicated as:

- monotherapy in the treatment of adult patients with paroxysmal nocturnal hemoglobinuria (PNH) who have hemolytic anemia.

1.1 Pediatrics

Pediatrics (< 18 years of age): The safety and efficacy of FABHALTA in pediatric patients below 18 years of age have not been established; therefore, Health Canada has not authorized an indication for pediatric use.

1.2 Geriatrics

Geriatrics (≥ 65 years of age): FABHALTA may be administered to patients aged 65 years and over. Evidence from clinical studies suggests that use in the geriatric population is not associated with differences in safety or effectiveness.

2 CONTRAINDICATIONS

FABHALTA is contraindicated:

- in patients with hypersensitivity to iptacopan or to any of the other excipients.
- in patients who are not currently vaccinated against *Neisseria meningitidis* and *Streptococcus pneumoniae* unless the risk of delaying FABHALTA treatment outweighs the risk of developing an infection from these encapsulated bacteria (see [7 WARNINGS AND PRECAUTIONS](#)).
- for initiation in patients with unresolved serious infection caused by encapsulated bacteria, including *Streptococcus pneumoniae*, *Neisseria meningitidis*, or *Haemophilus influenzae* type B.

3 SERIOUS WARNINGS AND PRECAUTIONS

Serious Warnings and Precautions

Due to its mechanism of action, the use of FABHALTA may predispose individuals to serious infections caused by encapsulated bacteria, such as *Streptococcus pneumoniae* and *Neisseria meningitidis* (see [7 WARNINGS AND PRECAUTIONS, Serious Infections Caused by Encapsulated Bacteria](#)).

- Comply with the most current National Advisory Committee on Immunization (NACI) recommendations or regional practice guidelines for vaccinations against encapsulated bacteria, specifically *Neisseria meningitidis* and *Streptococcus pneumoniae*, in patients with complement deficiencies.
- Patients must be vaccinated against encapsulated bacteria, specifically *Neisseria meningitidis* and *Streptococcus pneumoniae*, at least 2 weeks prior to initiating FABHALTA, unless the risks of delaying FABHALTA therapy outweigh the risks of developing a serious infection.
- Patients who initiate treatment with FABHALTA less than 2 weeks after vaccination must receive treatment with appropriate prophylactic antibiotics until 2 weeks after vaccination.
- Vaccination reduces, but does not eliminate, the risk of serious infections. Monitor patients for

early signs of serious infections and treat immediately if infection is suspected.

- FABHALTA is only available through a controlled distribution program under which prescribers must enroll patients and confirm vaccination against encapsulated bacteria. Prescribers must also counsel patients about the risk of serious infection and provide them with the Patient Guide and Patient Card. Information about the FABHALTA controlled distribution program is available at www.fabhalta.ca.

4 DOSAGE AND ADMINISTRATION

4.1 Dosing Considerations

- Vaccinate patients against encapsulated bacteria, including *Neisseria meningitidis* and *Streptococcus pneumoniae*. It is recommended to vaccinate against *Haemophilus influenzae* type B.
- Vaccines should be administered at least 2 weeks prior to initiation of FABHALTA therapy. Refer to the current NACI guidelines to reduce the risk of serious infection (see [7 WARNINGS AND PRECAUTIONS, Serious Infections Caused by Encapsulated Bacteria](#)).
- If FABHALTA must be initiated prior to vaccination, provide patients with antibacterial drug prophylaxis until 2 weeks after vaccine(s) are administered.

4.2 Recommended Dose and Dosage Adjustment

The recommended dose is 200 mg taken orally twice daily.

PNH is a disease that requires chronic treatment. Discontinuation of this medicinal product is not recommended unless clinically indicated (see [7 WARNINGS AND PRECAUTIONS](#)).

Adherence to dosing schedule

Healthcare providers should advise patients with PNH about the importance of adherence to the dosing schedule in order to minimize the risk of hemolysis (see [7 WARNINGS AND PRECAUTIONS](#)).

Patients switching from anti-C5 (eculizumab, ravulizumab) or other PNH therapies to FABHALTA

To reduce the potential risk of hemolysis with abrupt treatment discontinuation:

- For patients switching from eculizumab, FABHALTA should be initiated no later than 1 week after the last dose of eculizumab.
- For patients switching from ravulizumab, FABHALTA should be initiated no later than 6 weeks after the last dose of ravulizumab.

Switching from other complement inhibitors to FABHALTA has not been studied. When switching from other PNH therapies to FABHALTA, the dosing interval and mode of action of the previous medicinal products should be considered.

Special populations

Renal impairment: No dose adjustment is required in patients with mild (estimated glomerular filtration rate [eGFR] 60 to <90 mL/min/1.73 m²) or moderate (eGFR 30 to <60 mL/min/1.73 m²) renal impairment. No data are currently available in patients with severe renal impairment (eGFR <30 mL/min/1.73m²) or on dialysis and no dose recommendations can be given (see [10.3 Pharmacokinetics](#)).

Hepatic impairment: The use of FABHALTA is not recommended in patients with severe hepatic

impairment (Child-Pugh class C). No dose adjustment is required for patients with mild (Child-Pugh class A) or moderate (Child-Pugh class B) hepatic impairment (see [10.3 Pharmacokinetics](#)).

Pediatric patients (< 18 years of age): The safety and efficacy of FABHALTA in patients below the age of 18 years have not been established.

Geriatric patients (65 years of age or above): No dose adjustment is required for patients aged 65 years and over (see [10.3 Pharmacokinetics](#)).

4.4 Administration

For oral use. FABHALTA may be taken with or without food (see [10.3 Pharmacokinetics](#)).

4.5 Missed Dose

If a dose or doses are missed, the patient should be advised to take one dose of FABHALTA as soon as possible (even if it is soon before the next scheduled dose) and then to resume the regular dosing schedule.

5 OVERDOSAGE

Limited data are available with regard to overdose in humans. During clinical studies, a few patients took up to 800 mg FABHALTA daily and this was well tolerated. In healthy volunteers, the highest dose was 1200 mg administered as a single dose and this was well tolerated.

General supportive measures and symptomatic treatment should be initiated in cases of suspected overdose.

For management of a suspected drug overdose, contact your regional poison control centre.

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 1: Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Oral	Hard capsules / 200 mg / iptacopan (as 225.8 mg iptacopan hydrochloride monohydrate)	Capsule fill: None Capsule shell: Hard gelatin, red iron oxide, titanium dioxide, and yellow iron oxide. Printing ink: Black iron oxide, concentrated ammonia solution, propylene glycol, potassium hydroxide, and shellac.

FABHALTA 200 mg hard capsules are pale yellow opaque, imprinted with “LNP200” on the body and “NVR” on the cap, containing white or almost white to pale purplish-pink powder.

FABHALTA is supplied in PVC/PE/PVDC blisters.

The following pack size is available:

- Packs containing 56 hard capsules (4 x 14).

7 WARNINGS AND PRECAUTIONS

Please see [3 SERIOUS WARNINGS AND PRECAUTIONS](#).

Serious infections caused by encapsulated bacteria

FABHALTA is only available under a controlled distribution program.

The use of complement inhibitors, such as FABHALTA, may predispose individuals to serious, life-threatening, or fatal infections caused by encapsulated bacteria. To reduce the risk of infection, all patients must be vaccinated against encapsulated bacteria, including *Neisseria meningitidis* and *Streptococcus pneumoniae*. It is recommended to vaccinate patients against *Haemophilus influenzae* type B. Vaccinate patients according to current NACI or regional practice guidelines to reduce the risk of serious infection.

Vaccines should be administered at least 2 weeks prior to administration of the first dose of FABHALTA. If FABHALTA must be initiated prior to vaccination, patients should be vaccinated as soon as possible and provided with antibacterial drug prophylaxis until 2 weeks after vaccine administration.

If necessary, patients should be revaccinated in accordance with local vaccination guideline recommendations.

Vaccination reduces, but does not eliminate, the risk of serious infection. Serious infection may rapidly become life-threatening or fatal if not recognized and treated early. Patients should be informed of and monitored for early signs and symptoms of serious infection. Patients should be immediately evaluated and treated if infection is suspected. The use of FABHALTA during treatment of serious infection may be considered following an assessment of the risks and benefits. However, it is contraindicated to initiate FABHALTA in patients with unresolved serious infections caused by encapsulated bacteria.

General

Monitoring of PNH manifestations after discontinuation of FABHALTA

If treatment with FABHALTA must be discontinued, patients must be closely monitored for signs and symptoms of hemolysis for at least 2 weeks after the last dose. These signs include, but are not limited to, elevated lactate dehydrogenase (LDH) levels along with sudden decrease in hemoglobin or PNH clone size, fatigue, hemoglobinuria, abdominal pain, dyspnea, major adverse vascular events (including thrombosis), dysphagia, or erectile dysfunction. If discontinuation of FABHALTA is necessary, consider alternative therapy.

If hemolysis occurs after discontinuation of FABHALTA, restarting FABHALTA treatment or initiating an alternative therapy should be considered.

Monitoring and Laboratory Tests

Patients with PNH receiving FABHALTA should be monitored as per standard PNH management and regularly for signs and symptoms of hemolysis, including measuring lactate dehydrogenase (LDH) levels.

Increases in blood pressure, particularly diastolic blood pressure (DBP), as well as cholesterol were observed in patients with PNH treated with FABHALTA in clinical studies. Patients with PNH should be monitored for changes in these parameters. The clinical relevance of such findings should be assessed based on individual patient characteristics and the patient should be managed accordingly (see [8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data](#)).

Reproductive Health: Female and Male Potential

- **Fertility**

There are no data on the effect of FABHALTA on human fertility. In animal fertility studies, iptacopan did not impact fertility in male rats up to the highest dose tested, which corresponds to 4-fold the maximum recommended human dose (MRHD) based on AUC. Reversible effects on the male reproductive system (testicular tubular degeneration and hypospermatogenesis) were observed in repeated dose toxicity studies in dogs at doses 3-fold the MRHD based on AUC, with no apparent effects on sperm numbers, morphology or motility.

In female rats, increased pre- and post-implantation losses and, consequently, decreased numbers of live embryos, were observed at 4-fold the MRHD based on AUC (see [16 NON-CLINICAL TOXICOLOGY](#)).

7.1 Special Populations

7.1.1 Pregnant Women

There are insufficient data on FABHALTA use in pregnant women to inform a drug-associated risk of major birth defects, miscarriage, or other adverse maternal or fetal outcomes. There are risks to the mother and fetus associated with untreated PNH in pregnancy. These include worsening cytopenia, thrombotic events, infections, bleeding, miscarriages, increased maternal mortality, fetal death, and premature delivery. The use of FABHALTA in pregnant women or women planning to become pregnant may only be considered following a careful assessment of the risks and benefits, if necessary.

Animal reproduction studies in rats and rabbits demonstrated that administration of FABHALTA during organogenesis did not induce adverse embryo or fetal toxicity up to the highest doses tested, which correspond to 4-fold (rats) and 6-fold (rabbits) the MRHD based on AUC (see [16 NON-CLINICAL TOXICOLOGY, Reproductive and Developmental Toxicology](#)).

7.1.2 Breast-feeding

It is not known if iptacopan is transferred into human or animal milk after oral administration of FABHALTA. There are no data on the effects of FABHALTA on the breastfed child or on milk production. As potential serious adverse effects in breastfed infants cannot be ruled out, breastfeeding should be discontinued during treatment and for 5 days after the final dose.

7.1.3 Pediatrics

Pediatrics (<18 years of age): The safety and efficacy of FABHALTA in pediatric patients below 18 years of age have not been established.

7.1.4 Geriatrics

Geriatrics (≥ 65 years of age): FABHALTA may be administered to patients aged 65 years and over. Evidence from clinical studies suggests that use in the geriatric population is not associated with differences in safety or effectiveness.

8 ADVERSE REACTIONS

8.1 Adverse Reaction Overview

The safety of FABHALTA in patients with PNH was evaluated in a randomized, active-comparator controlled, open-label trial (APPLY-PNH) for 24 weeks. The safety profile is further supplemented by a supportive single-arm, open-label trial (APPOINT-PNH) for 24 weeks.

A total of 8 serious adverse events (irrespective of causality) were reported in 6 (9.7%) patients who received FABHALTA during the 24-week randomized treatment period in APPLY-PNH. These included sinus node dysfunction, COVID-19, pyelonephritis, urinary tract infection, blood creatine phosphokinase increased, basal cell carcinoma, myelodysplastic syndrome, transient ischemic attack.

The most common adverse reactions as assessed by investigators ($\geq 5\%$) with FABHALTA were headache and vomiting.

There were no discontinuations due to adverse events or serious adverse events in either of these studies.

8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.

Paroxysmal Nocturnal Hemoglobinuria (PNH)

The data described below reflect the exposure in adult patients with PNH who received FABHALTA (n = 62) or anti-C5 treatment (eculizumab or ravulizumab, n = 35) in APPLY-PNH and FABHALTA (n = 40) in APPOINT-PNH at the recommended dosing regimens for 24 weeks.

Table 2 describes the adverse reactions (as assessed by the investigators) that were reported in $\geq 3\%$ of patients treated with FABHALTA in the APPLY-PNH or APPOINT-PNH studies listed by MedDRA system organ class.

Table 2: Adverse Reactions as Assessed by Investigators Reported in $\geq 3\%$ of PNH Patients Treated with FABHALTA in APPLY-PNH or APPOINT-PNH Studies (24-Week Treatment Period)

Adverse reaction	APPLY-PNH		APPOINT-PNH
	FABHALTA (N = 62) n (%)	Anti-C5 (N = 35) n (%)	FABHALTA (N = 40) n (%)
Blood and lymphatic system disorders			
Platelet count decreased ^a	3 (5)	0	0
Gastrointestinal disorders			
Nausea	3 (5)	1 (3)	0
Diarrhea	2 (3)	0	0
Abdominal pain ^b	2 (3)	0	0

Vomiting	0	0	2 (5)
Infections and infestations			
Upper respiratory tract infection ^c	2 (3)	0	0
Musculoskeletal and connective tissue disorders			
Arthralgia	3 (5)	0	0
Nervous system disorders			
Headache ^d	5 (8)	1 (3)	4 (10)
Vascular disorders			
Hot flush	2 (3)	0	0
^a Platelet count decreased includes thrombocytopenia and platelet count decreased. ^b Abdominal pain includes abdominal pain, abdominal pain upper ^c Upper respiratory tract infection includes nasopharyngitis and upper respiratory tract infection. ^d Headache includes headache and head discomfort.			

8.3 Less Common Clinical Trial Adverse Reactions

Less common adverse reactions (as assessed by the investigators) reported below 3% of patients in APPLY-PNH and APPOINT-PNH are included below.

APPLY-PNH:

Blood and lymphatic system disorders: neutropenia (1 patient (1.6%))

Cardiac disorders: sinus bradycardia (1 patient (1.6%))

Ear and labyrinth disorders: hypoacusis (1 patient (1.6%))

Eye disorders: blepharospasm (1 patient (1.6%))

General disorders and administration site conditions: fatigue, feeling hot, thirst (1 patient each (1.6%))

Hepatobiliary disorders: hypertransaminasemia (1 patient (1.6%))

Infections and infestations: bronchitis, pneumonia, urinary tract infection (1 patient each (1.6%))

Investigations: activated partial thromboplastin time prolonged, alanine aminotransferase increased, amylase increased, aspartate aminotransferase increased, blood albumin increased, blood alkaline phosphatase increased, blood cholesterol increased, blood creatine phosphokinase increased, blood creatinine increased, blood lactate dehydrogenase increased, dihydrotestosterone decreased, low density lipoprotein increased, neutrophil count decreased, neutrophil percentage decreased, weight increased, white blood cell count decreased (1 patient each (1.6%))

Musculoskeletal and connective tissue disorders: back pain, muscle spasms, myalgia (1 patient each (1.6%))

Nervous system disorders: dizziness, hypoesthesia, peripheral sensory neuropathy (1 patient each (1.6%))

Psychiatric disorders: sleep disorder (1 patient (1.6%))

Renal and urinary disorders: chromaturia (1 patient (1.6%))

Reproductive system and breast disorders: dysmenorrhea (1 patient (1.6%))

Skin and subcutaneous tissue disorders: acne, alopecia, dermatitis acneiform, hyperhidrosis, rash erythematous, rash macular (1 patient each (1.6%))

Vascular disorders: hypertension 1 patient (1.6%))

APPOINT-PNH:

Gastrointestinal disorders: gastritis, haemorrhoidal haemorrhage (1 patient each (2.5%))

General disorders and administration site conditions: asthenia, fatigue (1 patient each (2.5%))

Hepatobiliary disorders: hepatic function abnormal (1 patient (2.5%))

Infections and infestations: mucosal infection (1 patient (2.5%))

Investigations: blood creatinine increased, blood follicle stimulating hormone increased, blood magnesium decreased, blood triglycerides increased, blood uric acid increased, dihydrotestosterone decreased, reverse tri-iodothyronine increased, weight increased (1 patient each (2.5%))

Nervous system disorders: dizziness (1 patient (2.5%))

8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data

Clinical Trial Findings

Platelet count decreased

Decreases in platelet counts were generally mild and transient. Some patients with pre-existing thrombocytopenia had further decreases to Grade 3 or 4 (based on CTCAE* version 4.03).

*Common Terminology Criteria for Adverse Events. Version 4.03 is dated June 2010

Blood cholesterol and blood pressure increased

In patients treated with iptacopan 200 mg twice a day in PNH clinical studies, mean increases from baseline of approximately 0.7 mmol/L (28 mg/dL) were seen at month 6 for both total cholesterol and LDL-cholesterol. The mean values remained within the normal ranges. Increases in blood pressure, particularly diastolic blood pressure (DBP), were observed (mean increase 4.7 mmHg at month 6). The mean DBP did not exceed 80 mmHg. Total cholesterol, LDL-cholesterol and DBP increases correlated with increases in hemoglobin (improvement in anemia) in patients with PNH (see [14 CLINICAL TRIALS](#)).

9 DRUG INTERACTIONS

9.2 Drug Interactions Overview

Iptacopan is a substrate of cytochrome P450 enzyme (CYP)2C8. Concomitant use of CYP2C8 inducers or strong CYP2C8 inhibitors may result in clinically relevant changes in iptacopan exposure (see [9.4 Drug-Drug Interactions](#)).

Iptacopan induced CYP3A4 expression in human hepatocytes in vitro. Concomitant use of FABHALTA may decrease plasma concentrations of sensitive CYP3A4 substrates (see [9.4 Drug-Drug Interactions](#)).

9.4 Drug-Drug Interactions

The drugs listed in this table are based on either drug interaction case reports or studies, or potential interactions due to the expected magnitude and seriousness of the interaction.

Table 3: Established or Potential Drug-Drug Interactions

Common name	Source of Evidence	Effect	Clinical comment
Agents that may alter iptacopan plasma concentrations			
CYP2C8 inducers (e.g., rifampin)	T	Concomitant use of CYP2C8 inducers may decrease plasma concentrations of iptacopan, which may result in loss of or reduced efficacy of FABHALTA.	Monitor the clinical response and discontinue use of the CYP2C8 inducer if loss of efficacy of FABHALTA is evident.
Strong CYP2C8 inhibitors (e.g., gemfibrozil)	T	Concomitant use of strong CYP2C8 inhibitors may increase iptacopan exposure, which may result in an increased risk for adverse reactions with FABHALTA.	Coadministration with a strong CYP2C8 inhibitor is not recommended.
Agents that may have their plasma concentrations altered by iptacopan			
CYP3A4 substrates (e.g., carbamazepine)	T	Concomitant use of iptacopan may decrease plasma concentrations of sensitive CYP3A4 substrates, which may result in loss of or reduced efficacy.	Caution should be exercised if co-administration of iptacopan with sensitive CYP3A4 substrates is required, especially those with a narrow therapeutic index.

T = Theoretical

Clinical drug interaction studies

Based on a clinical drug interaction study in healthy volunteers, iptacopan exposure did not change to a clinically relevant degree when co-administered with clopidogrel (a moderate CYP2C8 inhibitor) or cyclosporine (a P-gp, BCRP, and OATP1B1/1B3 inhibitor). The exposure of digoxin (a P-gp substrate) or rosuvastatin (an OATP substrate) did not change to a clinically relevant degree when co-administered with iptacopan.

In vitro drug interaction studies

Iptacopan did not inhibit CYP1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1 or 3A4/5 or induce CYP1A2, 2B6, 2C8, 2C9 or 2C19 in vitro at clinically relevant concentrations. Iptacopan did not inhibit transporters MATE1, MATE2-K, OAT1, OAT3, OCT1 or OCT2 in vitro at clinically relevant concentrations.

9.5 Drug-Food Interactions

FABHALTA may be taken with or without food (see [4 DOSAGE AND ADMINISTRATION](#) and [10.3 Pharmacokinetics, Absorption](#)).

9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

9.7 Drug-Laboratory Test Interactions

Interactions with laboratory tests have not been established.

10 CLINICAL PHARMACOLOGY

10.1 Mechanism of Action

Iptacopan binds to complement Factor B and inhibits the alternative complement pathway. Iptacopan inhibits the cleavage of the complement component C3, and the subsequent formation of the membrane attack complex (MAC).

In PNH, intravascular hemolysis (IVH) is mediated by the MAC, while extravascular hemolysis (EVH) is facilitated by C3 fragment opsonization. Iptacopan acts proximally in the alternative pathway of the complement cascade to control both C3 fragment-mediated EVH and MAC-mediated IVH.

10.2 Pharmacodynamics

The onset of inhibition of the alternative complement pathway biomarkers, *ex vivo* alternative pathway assay and plasma Bb (fragment Bb of FB), was ≤ 2 hours after a single iptacopan dose in healthy volunteers.

In PNH patients receiving concomitant anti-C5 treatment and iptacopan 200 mg twice daily, the *ex vivo* alternative pathway assay and plasma Bb decreased from baseline by 54.1% and 56.1%, respectively, on the first observation on Day 8. In treatment-naïve PNH patients, these same biomarkers decreased from baseline by 78.4% and 58.9%, respectively, on the first observation after 4 weeks of treatment with iptacopan 200 mg twice daily.

In PNH patients on concomitant anti-C5 treatment and iptacopan 200 mg twice daily, the mean PNH red blood cells (RBC) clone size was 54.8% at baseline and increased to 89.2% after 13 weeks; the proportion of PNH Type II + III RBCs with C3 deposition was 12.4% at baseline and decreased to 0.2% after 13 weeks. In treatment-naïve PNH patients, the mean PNH RBC clone size was 49.1% at baseline and increased to 91.1% after 12 weeks; there were negligible PNH Type II + III RBCs with C3 deposition in this population due to the predominance of IVH.

Iptacopan reduces serum LDH levels. In PNH patients previously treated with eculizumab, all patients treated with iptacopan 200 mg twice daily achieved a reduction of LDH levels to <1.5 times upper limit of normal (ULN) after 13 weeks and maintained the effect through the end of the study. In treatment-

naïve PNH patients, iptacopan 200 mg twice daily reduced LDH by >60% compared to baseline after 12 weeks and maintained the effect through the end of the study.

Cardiac electrophysiology

In a QTc clinical study in healthy volunteers, single supra-therapeutic iptacopan doses up to 1200 mg (which provided greater than 4-fold peak concentration of the 200 mg twice daily) showed no effect on cardiac repolarization or QT interval.

10.3 Pharmacokinetics

At doses between 25 mg and 200 mg twice daily, the systemic exposure of iptacopan was overall less than dose proportional. However, oral doses of 100 mg and 200 mg were approximately dose proportional. At the recommended dosing regimen of 200 mg twice daily, steady-state is achieved in approximately 5 days with minor accumulation (1.4-fold).

Table 4: Summary of Iptacopan Pharmacokinetic Parameters at Steady State in Healthy Volunteers after Administration of 200 mg Twice Daily

	C _{max} (ng/mL)	T _{max} (h)	t _{1/2} (h)	AUC _{tau} (ng*hr/mL)	CL/F (mL/hr)	Vd/F (mL)
Multiple dose mean	4120 (1090)	2.02 [0.75; 3.0]	25.0 (11)	25,600 (4300)	7960 (1070)	288,000 (141,000)

Pharmacokinetic data are summarized as arithmetic mean (standard deviation) except for T_{max} which is presented as median [minimum; maximum]; C_{max}, maximum concentration; T_{max}, time of maximum concentration; t_{1/2}, half-life; AUC_{tau}, area under the curve during the dosing interval; CL/F, apparent total body clearance; Vd/F, apparent volume of distribution.

Absorption

Following oral administration, iptacopan reached peak plasma concentrations approximately 2 hours post dose.

Effect of food

The C_{max} and AUC data from a food-effect study involving administration of iptacopan to healthy volunteers under fasting conditions or with a high-fat meal indicated that exposure to iptacopan is not affected by food. Therefore, FABHALTA may be taken with or without food.

Distribution

Iptacopan showed concentration-dependent plasma protein binding due to binding to the target FB in the systemic circulation. Iptacopan was 75% to 93% protein bound in vitro at the relevant clinical plasma concentrations.

Metabolism

Metabolism is a predominant elimination pathway for iptacopan with approximately 50% of the dose attributed to oxidative pathways. Metabolism of iptacopan includes N-dealkylation, O-demethylation, oxidation, and dehydrogenation, mostly driven by CYP2C8 (98%) with a small contribution from CYP2D6 (2%). Iptacopan undergoes Phase 2 metabolism through glucuronidation by UGT1A1, UGT1A3, and UGT1A8. In plasma, iptacopan was the major component accounting for 83% of the total drug related exposure. Two acyl glucuronides were the only metabolites detected in plasma and were minor, accounting for 8% and 5% of the total drug related exposure. Iptacopan metabolites are not considered pharmacologically active.

Elimination

In a human study, following a single 100 mg oral dose of [¹⁴C] iptacopan, mean total excretion of radioactivity (iptacopan and metabolites) was 71.5% in the feces and 24.8% in the urine giving total mean excretion of >96% of the dose. Specifically, 17.9% of the dose was excreted as parent iptacopan into the urine and 16.8% in feces.

Special Populations and Conditions

A population pharmacokinetic analysis was conducted on data from 234 patients. Age (18 to 84 years), body weight, race and gender did not have a clinically significant effect on iptacopan pharmacokinetics. Studies that included Asian subjects showed that the pharmacokinetics of iptacopan were similar to Caucasian (white) subjects.

- **Hepatic Insufficiency:** Based on a study in subjects with mild (Child-Pugh A), moderate (Child-Pugh B), or severe (Child-Pugh C) hepatic impairment, a negligible effect of hepatic impairment on the exposure of total (bound plus unbound) iptacopan was observed. However, unbound iptacopan AUC_{inf} increased by 1.5-, 1.6- and 3.7-fold in subjects with mild, moderate and severe hepatic impairment, respectively, compared to subjects with normal hepatic function following a single 200 mg oral dose of iptacopan.
- **Renal Insufficiency:** The effect of renal impairment on the clearance of iptacopan was assessed using a population pharmacokinetic analysis. Renal function was estimated as eGFR using the Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) equation. There were no clinically relevant differences in the clearance of iptacopan between patients with normal renal function and patients with mild (eGFR 60 to <90 mL/min/1.73m²) or moderate (eGFR 30 to <60 mL/min/1.73m²) renal impairment. Patients with severe renal impairment or on dialysis have not been studied.

11 STORAGE, STABILITY AND DISPOSAL

Store below 30°C.

This medicinal product does not require any special storage conditions.

FABHALTA must be kept out of the reach and sight of children.

12 SPECIAL HANDLING INSTRUCTIONS

Not applicable.

PART II: SCIENTIFIC INFORMATION

13 PHARMACEUTICAL INFORMATION

Drug Substance

Proper name: iptacopan

Chemical name: (2*S*,4*S*)-2-(4-Carboxyphenyl)-4-ethoxy-1-[(5-methoxy-7-methyl-1*H*-indol-4-yl)methyl]piperidin-1-ium chloride—water (1/1)

Molecular formula:

Active moiety: $C_{25}H_{30}N_2O_4$

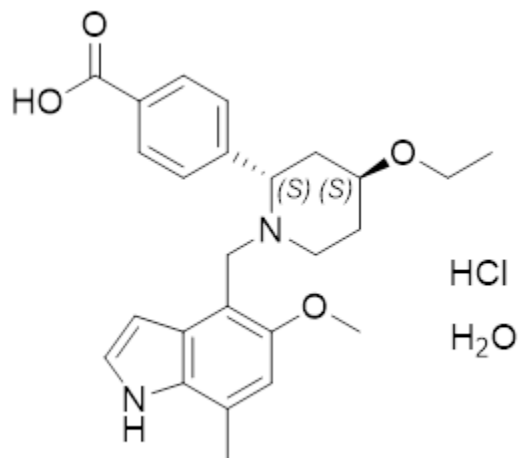
Salt on solvate (hydrate) form: $C_{25}H_{30}N_2O_4 \cdot HCl \cdot H_2O$

Relative Molecular mass:

Active moiety: 422.52

Salt and solvate (hydrate) form: 477.00

Structural formula:



Physicochemical properties:

White or almost white to pale purplish-pink powder.

Solubility: slightly soluble in water at $25 \pm 0.2^\circ\text{C}$ and sparingly soluble in water at $37 \pm 0.5^\circ\text{C}$.

pH value: pH of 0.1% (m/V) solution in water measured at 22.5°C potentiometrically was found to be 3.18.

14 CLINICAL TRIALS

14.1 Clinical Trials by Indication

Paroxysmal Nocturnal Hemoglobinuria (PNH)

The efficacy and safety of FABHALTA in adult patients with PNH were evaluated in two multi-center, open-label, 48-week Phase 3 studies: an active comparator-controlled study (APPLY-PNH) and a single arm study (APPOINT-PNH).

Table 5: Summary of patient demographics for clinical trials in PNH

Study #	Study design	Dosage, route of administration and duration	Study subjects (n)	Mean age (Range)	Sex n (%)
APPLY-PNH (C12302)	Phase 3 randomized, multicenter, active-comparator controlled, open-label trial	<u>Iptacopan</u> 200 mg orally twice daily <u>Anti-C5</u> (Eculizumab 300 mg/30mL IV or Ravulizumab 300 mg/30mL IV) Duration: 24 weeks	<u>Iptacopan</u> n= 62 <u>Anti-C5</u> n= 35 (eculizumab n=23 or ravulizumab n=12)	<u>Iptacopan</u> 51.7 years (22-84) <u>Anti-C5</u> 49.8 years (20-82)	<u>Iptacopan</u> Female 43 (69.4%) Male 19 (30.6%) <u>Anti-C5</u> Female 24 (68.6%) Male 11 (31.4%)
APPOINT-PNH (C12301)	Phase 3 multicenter, single-arm, open-label trial	Iptacopan 200 mg orally twice daily Duration: 24 weeks	n= 40	42.1 years (18-81)	Female 17 (42.5%) Male 23 (57.5%)

- APPLY-PNH: anti-C5 treatment experienced patients with PNH**

APPLY-PNH enrolled adult PNH patients with residual anemia (hemoglobin <10 g/dL) despite previous treatment with a stable regimen of anti-C5 treatment (either eculizumab or ravulizumab) for at least 6 months prior to randomization.

Ninety-seven patients were randomized in 8:5 ratio either to switch to FABHALTA 200 mg orally twice daily (n=62) or to continue anti-C5 treatment (eculizumab n=23 or ravulizumab n=12) throughout the duration of the 24-week randomized treatment period. Randomization was stratified based on prior anti-C5 treatment and transfusion history within the last 6 months. Following completion of the 24-week randomized treatment period, all patients were eligible to enroll in a 24-week treatment extension period and receive FABHALTA monotherapy. Subsequently, patients were eligible to enter a separate long-term extension study.

Patients were required to be vaccinated against *Neisseria meningitidis* and recommended to be vaccinated against *Streptococcus pneumoniae* and *Haemophilus influenzae* type B. If the patient had not been previously vaccinated or if a booster was required, vaccination was administered at least 2 weeks prior to first dosing. If FABHALTA treatment was initiated earlier than 2 weeks after vaccination, antibacterial drug prophylaxis was administered. In total, 97%, 86% and 89% of patients in the FABHALTA arm were vaccinated against *Streptococcus pneumoniae*, *Neisseria meningitidis* and

Haemophilus influenzae type B, respectively, either before or during treatment with FABHALTA. All patients (100%) in the FABHALTA arm were vaccinated against *meningococcal serotype A, C, W-135* and Y vaccines.

Demographics and baseline disease characteristics were generally well balanced between treatment groups (see Table 6). The mean time on prior anti-C5 treatment was 3.8 and 4.2 years for FABHALTA and anti-C5 groups, respectively. The baseline mean PNH RBC clone size (Type II + III) was 64.6% for FABHALTA and 57.4% for the anti-C5 group.

During the randomized treatment period, one patient in the FABHALTA group discontinued treatment due to pregnancy; no patients in the anti-C5 group discontinued.

Table 6: Patient Baseline Demographics and Characteristics in APPLY- PNH

Parameters	Statistics	FABHALTA (n=62)	Anti-C5 (n=35)
Age (years)	Mean (SD) min, max	51.7 (16.9) 22, 84	49.8 (16.7) 20, 82
Sex			
Female	n (%)	43 (69.4)	24 (68.6)
Male		19 (30.6)	11 (31.4)
Race			
Asian	n (%)	12 (19.4)	7 (20.0)
black or African American	n (%)	2 (3.2)	2 (5.7)
white or Caucasian	n (%)	48 (77.4)	26 (74.3)
Ethnicity			
Hispanic or Latino	n (%)	8 (12.9)	2 (5.7)
Not Hispanic or Latino	n (%)	51 (82.3)	27 (77.1)
Not reported/unknown	n (%)	3 (4.8)	6 (17.1)
Hemoglobin level (g/dL)	Mean (SD)	8.9 (0.7)	8.9 (0.9)
LDH level (U/L)	Mean (SD)	269.1 (70.1)	272.7 (84.8)
Absolute reticulocyte count (ARC) (10 ⁹ /L)	Mean (SD)	193.2 (83.6)	190.6 (80.9)
At least one transfusion in 12 months prior to screening	n (%)	37 (59.7)	22 (62.9)
At least one transfusion in 6 months prior to randomization	n (%)	35 (56.5)	21 (60.0)
Number of transfusions in 6 months prior to randomization among patients who had a transfusion	Mean (SD)	3.1 (2.6)	4.0 (4.3)
History of MAVEs (including thrombosis)	n (%)	12 (19.4)	10 (28.6)
Disease duration (years)	Mean (SD)	11.9 (9.8)	13.5 (10.9)
Abbreviations: LDH, lactate dehydrogenase; MAVEs, major adverse vascular events; SD, standard deviation.			

Efficacy was based on two primary endpoints to demonstrate superiority of switching to FABHALTA compared to continuing on anti-C5 therapy in achieving hematological response after 24 weeks of treatment, without a need for transfusion, by assessing the proportion of patients demonstrating: 1) sustained increase of ≥ 2 g/dL in hemoglobin levels from baseline (hemoglobin improvement) and/or 2) sustained hemoglobin levels ≥ 12 g/dL.

FABHALTA was superior to anti-C5 treatment, with a significant difference in response rate of 80.2% (82.3% vs 2%) for sustained increase of hemoglobin levels ≥ 2 g/dL from baseline, and 67% (68.8% vs

1.8%) for sustained hemoglobin level ≥ 12 g/dL without a need for RBC transfusion, after 24 weeks of treatment ($p < 0.0001$) (see Table 7).

FABHALTA was also superior to anti-C5 treatment for transfusion avoidance rate, change from baseline in hemoglobin level, improving fatigue as assessed by FACIT-Fatigue, in annualized rate of clinical breakthrough hemolysis and reduction in absolute reticulocyte count from baseline (see Table 7). Patient-reported FACIT-fatigue may be an under- or over-estimation, because patients were not blinded to treatment assignment.

The treatment effect of FABHALTA on hemoglobin was seen as early as Day 7 and sustained during the study. The LDH ratio to baseline was similar for both treatment groups, demonstrating that FABHALTA maintained control of IVH following discontinuation of anti-C5 treatment.

The results for the primary endpoints were consistent across the predefined subgroups studied (including disease duration, age, sex, baseline hemoglobin, history of MAVEs, previous anti-C5 treatment (eculizumab or ravulizumab), the need for transfusion in the last 6 months, number of transfusions in the last 6 months (< 2 or ≥ 2), LDH level at baseline and duration of previous anti-C5 treatment) although these results should be interpreted with caution given the small sample size and inherent risks with subgroup analyses in general.

Table 7: Efficacy results for the 24-week randomized treatment period in APPLY-PNH

Endpoints	FABHALTA (N=62)	Anti-C5 (N=35)	Difference (95% CI) p-value
Primary endpoints			
Number of patients achieving hemoglobin improvement (sustained increase of hemoglobin levels ≥ 2 g/dL from baseline ^a in the absence of transfusions)	51/60 ^b	0/35 ^b	
Response rate ^c (%)	82.3	2.0	80.2 (71.2, 87.6) < 0.0001
Number of patients achieving sustained hemoglobin level ≥ 12 g/dL ^a in the absence of transfusions	42/60 ^b	0/35 ^b	
Response rate ^c (%)	68.8	1.8	67.0 (56.4, 76.9) < 0.0001
Secondary endpoints			
Number of patients avoiding transfusion ^{d,e}	59/62 ^b	14/35 ^b	
Transfusion avoidance rate ^c (%)	94.8	25.9	68.9 (51.4, 83.9) < 0.0001
Hemoglobin level change from baseline (g/dL) (adjusted mean ^f)	3.60	-0.06	3.66 (3.20, 4.12) < 0.0001
FACIT-Fatigue score change from baseline (adjusted mean ^{a,g,h})	8.59	0.31	8.29 (5.28, 11.29) < 0.0001
Clinical breakthrough hemolysis ^{i,j} , % (n/N)	3.2 (2/62)	17.1 (6/35)	RR=0.10 (0.02, 0.61)
Annualized rate of clinical breakthrough hemolysis	0.07	0.67	0.01

Endpoints	FABHALTA (N=62)	Anti-C5 (N=35)	Difference (95% CI) p-value
Absolute reticulocyte counts change from baseline (10 ⁹ /L) (adjusted mean ^a)	-115.8	0.43	-116.2 (-132.0, -100.3) <0.0001
LDH ratio to baseline (adjusted geometric mean ^{a,g})	0.96	0.98	Ratio = 0.99 (0.89, 1.10) 0.84
MAVEs ⁱ % (n/N)	1.6 (1/62)	0	0.03 (-0.03, 0.10)
Annualized rate of MAVEs ⁱ	0.03	0	0.32
Abbreviations: RR, rate ratio; LDH, lactate dehydrogenase; MAVEs, major adverse vascular events. ^a Assessed between Day 126 and 168. ^b Based on observed data among evaluable patients. ^c Response rate reflects the adjusted proportion. ^d Assessed between Day 14 and 168. ^e Transfusion avoidance is defined as absence of administration of packed-red blood cell transfusions or meeting the criteria for transfusion between Day 14 and 168. ^f Adjusted mean assessed between Day 126 and 168, values within 30 days after transfusion were excluded from the analysis. ^g Adjusted mean assessed between Day 126 and 168, values within 30 days after transfusion were included in the analysis. ^h Patient-reported FACIT-fatigue may be an under- or over-estimation, because patients were not blinded to treatment assignment. ⁱ Assessed between Day 1 and 168. ^j Clinical breakthrough hemolysis defined as meeting clinical criteria (either decrease of Hemoglobin level ≥ 2 g/dL compared to the last assessment or within 15 days; or signs or symptoms of gross hemoglobinuria, painful crisis, dysphagia or any other significant clinical PNH-related signs and symptoms) and laboratory criteria (LDH > 1.5 -times ULN and increased as compared to the last 2 assessments).			

- **APPOINT-PNH: Complement inhibitor naïve study**

APPOINT-PNH studied 40 adult PNH patients (RBC clone size $\geq 10\%$) with hemoglobin < 10 g/dL and LDH > 1.5 ULN, who were not previously treated with a complement inhibitor. All 40 patients received FABHALTA 200 mg orally twice daily during the 24-week open-label core treatment period. Subsequently, patients were eligible to enroll in a 24-week treatment extension period and continue to receive FABHALTA, followed by a separate long-term extension study.

The mean age of the patients was 42.1 years and 42.5% were female. The mean disease duration was 4.7 years. The baseline mean PNH RBC clone size (Type II + III) was 42.7%, mean baseline hemoglobin was 8.2 g/dL, and approximately 70% of patients required a transfusion in the 6 months prior to treatment. The baseline mean LDH level was 1,699 U/L and the mean absolute reticulocyte count was $154 \times 10^9/L$. About 12.5% of patients had a history of MAVEs. No patients discontinued from the core treatment period of the study.

FABHALTA treatment resulted in a response rate of 92.2% (95% CI: 82.5, 100.0) for a sustained increase of ≥ 2 g/dL in hemoglobin levels from baseline, without a need for RBC transfusion, after 24 weeks. The response rate for patients achieving hemoglobin ≥ 12 g/dL without a need for RBC transfusion, after 24 weeks was 62.8% (95% CI: 47.5, 77.5). FABHALTA treatment led to transfusion avoidance rate of 97.6% (95% CI: 92.5, 100.0).

Patients treated with FABHALTA experienced clinically meaningful improvements in patient reported fatigue (FACIT-Fatigue score change from baseline +10.8; 95% CI: 8.7, 12.8). Patient-reported FACIT-fatigue may be an under- or over-estimation, because patients were not blinded to treatment assignment. No patients experienced clinical breakthrough hemolysis or MAVEs. When compared to baseline, in patients treated with FABHALTA, hemoglobin levels increased by 4.3 g/dL (95% CI: 3.9, 4.7), absolute reticulocyte counts decreased by $82.5 \times 10^9/L$ (95% CI: 89.3, 75.6), and LDH levels decreased

by 83.6% (95% CI: 84.9, 82.1) after 24 weeks. The treatment effect of FABHALTA on LDH was seen as early as Day 7 and reached <1.5 ULN by Day 14, which was sustained during the study.

The results for the primary endpoint were consistent across the predefined subgroups examined, including disease duration, age, sex, baseline hemoglobin, history of MAVEs, need for transfusion in the last 6 months, and number of transfusions in the last 6 months (<2 or ≥2), although these results should be interpreted with caution given the small sample size.

15 MICROBIOLOGY

No microbiological information is required for this drug product.

16 NON-CLINICAL TOXICOLOGY

General Toxicology:

The preclinical safety profile of iptacopan was assessed in oral repeat-dose toxicity studies in rats and in dogs.

In a 26-week study, rats were administered iptacopan at 50, 150, or 750 mg/kg/day. Increased thyroid gland weight was observed at all doses, which correlated with follicular cell hypertrophy and large thyroid at higher dose levels. Increased testis weight was noted at all doses without microscopic findings or changes in sperm parameters. All changes showed full reversibility and were considered non-adverse. The no observed adverse effect level (NOAEL) in this study was 750 mg/kg/day (5-fold MRHD based on AUC).

In a 39-week study, dogs were administered iptacopan at 5, 30, or 150 mg/kg/day. Dyserythropoiesis with bone marrow fibrosis led to one death at the highest dose. Transient increases in heart rate were observed upon treatment initiation at the highest dose (17-fold MRHD based on C_{max}), which were associated with decreased blood pressure and reflexive decreases in PR and QT intervals. No effects on corrected QT interval or QRS were observed. Increased thyroid gland weight with follicular cell hypertrophy were noted at all doses. Decreased testis weight associated with tubular degeneration and increased cellular debris in the epididymis were observed at ≥30 mg/kg/day, and considered adverse. Findings in surviving animals showed full reversibility. The NOAEL in this study was 5 mg/kg/day (0.6-fold MRHD based on AUC).

In a 4-week study where a higher dose of 300 mg/kg/day (45-fold and 30-fold MRHD based on C_{max} and AUC, respectively) was administered to dogs, increased heart rate was associated with partially reversible cardiomyocyte degeneration and fibrosis.

Genotoxicity: Iptacopan was not genotoxic or mutagenic in the bacterial reverse mutation assay, in vitro human lymphocyte micronucleus test, and in vivo rat micronucleus test.

Carcinogenicity: Oral administration of iptacopan to rasH2 transgenic mice for 6 months with doses up to 1000 mg/kg/day (3-fold MRHD based on AUC) and to rats for 2 years with doses up to 750 mg/kg/day (9-fold MRHD based on AUC) did not identify any carcinogenic potential.

Reproductive and Developmental Toxicology: In fertility studies in rats, oral administration of iptacopan to males for 13 weeks prior to pairing and during pairing had no adverse effects on fertility up to the highest dose of 750 mg/kg/day (4-fold MRHD based on AUC). Administration of iptacopan to female rats for 2 weeks prior to pairing until gestation day 6 increased pre- and post-implantation loss

and decreased the number of live embryos at the highest dose of 1000 mg/kg/day (4-fold MRHD based on AUC). The NOAEL for fertility in female rats was 300 mg/kg/day (2-fold MRHD based on AUC).

In the embryo-fetal development study in rats, oral administration of iptacopan during organogenesis did not induce adverse maternal, embryo or fetal toxicity up to the highest dose of 1000 mg/kg/day (4-MRHD based on AUC). Non-adverse fetal skull ossification delays were observed at all doses (lowest dose equivalent to 0.6-fold MRHD based on AUC).

In the embryo-fetal development study in rabbits, oral administration of iptacopan did not induce adverse embryo or fetal toxicity at any dose, while maternal toxicity (adverse body weight loss and reduced food consumption) was observed at the highest dose of 450 mg/kg/day (6-fold the MRHD based on AUC.)

In the pre- and postnatal development study in rats, oral administration of iptacopan to females from gestational day 6 to lactation day 21 had no adverse effects on pregnant dams or offspring up to the highest dose of 1000 mg/kg/day (4-fold MRHD based on AUC). Excretion of iptacopan in milk was not investigated.

Special Toxicology: Iptacopan absorbs light in the UVB and UVA range. In the local lymph node assay in female mice administered iptacopan doses of up to 1000 mg/kg (34-fold MRHD based on C_{max}), transient minimal erythema, scabs and dryness, and slight increase in ear weight subsequent to irradiation were observed in a non-dose dependent manner.

PATIENT MEDICATION INFORMATION

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

PrFABHALTA®

Iptacopan capsules

Read this carefully before you start taking **FABHALTA®** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **FABHALTA**.

Serious Warnings and Precautions:

FABHALTA may increase your risk of infections caused by certain types of bacteria. This includes *Streptococcus pneumoniae* and *Neisseria meningitidis*.

- Talk to your healthcare professional before you start FABHALTA to be sure that you receive the required vaccinations. Even if you have had these vaccinations in the past, you might still need a booster (additional vaccinations) before starting this medicine.
- You should be given these vaccinations at least 2 weeks before starting FABHALTA. If this is not possible, you will be vaccinated as soon as possible after you start FABHALTA and your healthcare professional will prescribe antibiotics. You should take your antibiotics until 2 weeks after you have been vaccinated to reduce the risk of infection.
- Vaccines reduce the risk of serious infections but may not prevent all serious infections. You should be closely monitored by your healthcare professional for symptoms of infection and you should inform them right away if you have any signs of a serious infection during treatment with FABHALTA, such as:
 - fever with or without shivers or chills
 - fever and a rash
 - fever with chest pain and cough
 - fever with breathlessness/fast breathing
 - fever with high heart rate
 - headache with nausea or vomiting
 - headache and a fever
 - headache with stiff neck or stiff back
 - confusion
 - body aches with flu-like symptoms
 - clammy skin
 - eyes sensitive to light
- FABHALTA is only available through a controlled distribution program. Your healthcare professional will enroll you in this program and counsel you on the risk of serious infections. They will also give you a patient guide and patient card. Talk to your healthcare professional if you have any questions about this program.

What is FABHALTA used for?

FABHALTA is used to treat adults with paroxysmal nocturnal hemoglobinuria (PNH), who have low levels of red blood cells due to the breakdown of the red blood cells. PNH is a type of disease that affects the blood system.

How does FABHALTA work?

In patients with PNH, a group of proteins in the immune system called “complement system” is overactive and attacks the red blood cells. FABHALTA belongs to a class of medicines called selective immunosuppressants. It works by attaching to a protein called Factor B and blocks the complement system from attacking red blood cells. This helps to increase the number of red blood cells (reduce anemia) and control PNH.

What are the ingredients in FABHALTA?

Medicinal ingredient: iptacopan (as iptacopan hydrochloride monohydrate)

Non-medicinal ingredients: Capsule shell: Gelatin, red iron oxide, titanium dioxide, yellow iron oxide

Printing ink: Black iron oxide, concentrated ammonia solution, potassium hydroxide, propylene glycol, shellac

FABHALTA comes in the following dosage form:

Capsules: 200 mg

FABHALTA is available in packs containing 56 capsules (4 blisters of 14 capsules each).

Do not use FABHALTA if:

- you are allergic (hypersensitive) to iptacopan or any of the other ingredients of FABHALTA (see **What are the ingredients in FABHALTA** above).
- you are not vaccinated against *Neisseria meningitidis* and *Streptococcus pneumoniae* unless your healthcare professional decides that urgent treatment with FABHALTA is needed.
- you have a serious infection caused by encapsulated bacteria including *Neisseria meningitidis*, *Streptococcus pneumoniae*, or *Haemophilus influenzae* type B, prior to starting FABHALTA treatment.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take FABHALTA. Talk about any health conditions or problems you may have, including if you:

- have an infection.
- have liver problems.

Other warnings you should know about:

- **Children and adolescents (18 years of age or younger)**
 - You should not take FABHALTA if you are 18 years of age or younger. No data are available on the safety and effectiveness of FABHALTA in this age group.
- **Pregnancy and breast-feeding**
 - If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your healthcare professional for advice before taking this medicine.
 - Your healthcare professional will discuss with you the potential risks of taking FABHALTA during pregnancy or breast-feeding.
 - You should also tell your healthcare professional if you become pregnant during the treatment with FABHALTA.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

The following may interact with FABHALTA:

- Rifampin, a medicine to treat bacterial infections
- Gemfibrozil, a medicine to treat high triglycerides
- Carbamazepine, a medicine to treat epilepsy

How to take FABHALTA:

- Always take FABHALTA exactly as your healthcare professional tells you. Check with your healthcare professional if you are not sure.
- Swallow the FABHALTA capsule with a glass of water. Ideally once in the morning and once in the evening. Taking FABHALTA at the same time each day will help you to remember when to take your medicine.
- FABHALTA can be taken with or without food.

Usual dose:

The recommended dose is 200 mg twice daily.

Switching from other PNH medicines to FABHALTA

- If you are switching from a medicine called **eculizumab**, you should start taking FABHALTA no later than one week after the last dose of eculizumab.
- If you are switching from a medicine called **ravulizumab**, you should start taking FABHALTA no later than 6 weeks after the last dose of ravulizumab.
- If you are switching from any other PNH medicine, ask your healthcare professional when to start taking FABHALTA.

How long to take FABHALTA

- PNH is a lifelong condition and it is expected that you will need to use FABHALTA for a long time. Your healthcare professional will regularly monitor your condition to check that the treatment is having the desired effect.
- If you have questions about how long you will need to take FABHALTA, talk to your healthcare professional.
- **Stopping your treatment with FABHALTA can make your condition worse. Do not stop taking FABHALTA without talking to your healthcare professional first.**
- If your healthcare professional decides to stop your treatment with this medicine, they will monitor you closely for at least 2 weeks after stopping treatment for any signs of the breakdown of red blood cells (hemolysis) due to PNH. Your healthcare professional may prescribe a different PNH medicine or have you restart FABHALTA treatment.
- Symptoms or problems that can happen due to breakdown of red blood cells include:
 - decrease in hemoglobin level in your blood
 - blood in the urine
 - shortness of breath
 - trouble swallowing
 - tiredness
 - pain in the stomach (abdomen)
 - blood clots (thrombosis)
 - erectile dysfunction

If you experience any of these after stopping treatment, contact your healthcare professional.

Overdose:

If you think you, or a person you are caring for, have taken too much FABHALTA contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

Missed Dose:

If you miss a dose or doses of FABHALTA, take one dose as soon as you remember (even if it is soon before the next scheduled dose). Continue with your next scheduled dose at the usual time.

What are possible side effects from using FABHALTA?

These are not all the possible side effects you may have when taking FABHALTA. If you experience any side effects not listed here, tell your healthcare professional.

- Diarrhea
- Pain in the stomach (abdomen)
- Common cold (upper respiratory infection)
- Headache
- Nausea and vomiting (feeling sick)
- Joint pain (arthralgia)
- Hot flash

FABHALTA may cause abnormal blood test results. Your healthcare professional will decide when to perform blood tests and will interpret the results.

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
UNKNOWN FREQUENCY			
Fever		X	
Hemolysis (Breakdown of red blood cells): low blood counts (anemia), tiredness, difficulty in functioning, pain, dark urine, shortness of breath, and blood clots		X	

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

- Store below 30°C
- Keep this medicine out of the sight and reach of children.
- Do not take this medicine after the expiration date, which is stated on the box.

If you want more information about FABHALTA:

- Talk to your healthcare professional.
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website: (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the manufacturer's website (www.novartis.ca) , by calling 1-800-363-8883, or by calling the FABHALTA patient support program at 1-877-580-5303.

This leaflet was prepared by Novartis Pharmaceuticals Canada Inc.

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FABHALTA is a registered trademark.