Package leaflet: Information for the user

Bendamustine HCl 25 mg or 100 mg powder for concentrate for solution for infusion Bendamustine hydrochloride

Read all of this leaflet carefully before you start using this medicine because it

- contains important information for you.Keep this leaflet. You may need to read it again.
- Keep tills leanet. Tou may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
 This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

- 1. What Bendamustine is and what it is used for
- 2. What you need to know before you use Bendamustine
- 3. How to use Bendamustine
- 4. Possible side effects
- 5. How to store Bendamustine

6. Contents of the pack and other information

1. What Bendamustine is and what it is used for

Bendamustine is a medicine which is used for the treatment of certain types of cancer (cytotoxic medicine).

Bendamustineis used alone (monotherapy) or in combination with other medicines for the treatment of the following forms of cancer:

- chronic lymphocytic leukaemia in cases where fludarabine combination chemotherapy is not appropriate for you,
- non-Hodgkin's lymphomas, which had not, or only shortly, responded to prior rituximab treatment,
- multiple myeloma in cases where thalidomide or bortezomib containing therapy is not appropriate for you.

2. What you need to know before you use Bendamustine

Do not use Bendamustine

- if you are allergic to bendamustine hydrochloride or any of the other ingredients of this medicine (listed in section 6);
- while breast-feeding; if treatment with bendamustine hydrochloride is necessary during lactation you must discontinue breast-feeding (see section Pregnancy, breast-feeding and fertility);
- if you have severe liver dysfunction (damage to the functional cells of the liver);
 if you have yellowing of the skin or whites of the eyes caused by liver or blood problems (jaundice);
- if you have severely disturbed bone marrow function (bone marrow depression) and serious changes in your number of white blood cells and platelets in the blood;
- if you have had major surgical operations less than 30 days before starting treatment;
- if you have an infection, especially one accompanied by a reduction in white blood cells (leucocytopenia);
- in combination with yellow fever vaccines.

Warnings and precautions

Talk to your doctor, pharmacist or nurse before using Bendamustine

- in case of reduced capability of the bone marrow to replace blood cells. You should have your number of white blood cells and platelets in the blood checked before starting treatment with Bendamustine, before each subsequent course of treatment and in the intervals between courses of treatment.

- in case of infections. You should contact your doctor if you have signs of infection, including fever or lung symptoms.
- at any time during or after your treatment, tell your doctor immediately if you notice or someone notices in you: memory loss, trouble thinking, difficulty walking or sight loss these may be due to a very rare but serious brain infection which can be fatal (progressive multifocal leukoencephalopathy or PML).
- in case of reactions on your skin during treatment with <Product Name>. The skin reactions may increase in severity.
- contact your doctor if you notice any suspicious skin changes because there may be an increased risk of certain types of skin cancer (non-melanoma skin cancer) with the use of this medicine.
- in case of painful red or purplish rash that spreads and blisters and/or other lesions begin to appear in the mucous membrane (e.g. mouth and lips), in particular if you had before light sensitivity, infections of the respiratory system (e.g. bronchitis) and/or fever.
- in cases of existing heart disease (e.g. heart attack, chest pain, severely disturbed heart rhythms).
- in case you notice any pain in your side, blood in your urine or reduced amount of urine. When your disease is very severe, your body may not be able to clear all the waste products from the dying cancer cells. This is called tumour lysis syndrome and can cause kidney failure and heart problems within 48 hours of the first dose of <Product Name>. Your doctor may ensure you are adequately hydrated and give you other medicines to help prevent it.
- in case of severe allergic or hypersensitivity reactions. You should pay attention to infusion reactions after your first cycle of therapy.

Other medicines and Bendamustine

Tell your doctor or pharmacist if you are taking have recently taken or might take any other medicines.

If bendamustine hydrochloride is used in combination with medicines which inhibit the formation of blood in the bone marrow, the effect on the bone marrow may be intensified.

If bendamustine hydrochloride is used in combination with medicines which alter you immune response, this effect may be intensified.

Cytostatic medicines may diminish the effectiveness of live-virus vaccination. Additionally cytostatic medicines increase the risk of an infection after vaccination with live vaccines (e.g. viral vaccination).

Pregnancy, breast-feeding and fertility

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before using this medicine.

Pregnancy

Bendamustine hydrochloride can cause genetic damage and has caused malformations in animal studies. You should not use Bendamustine during pregnancy unless certainly indicated by your doctor. In case of treatment you should use medical consultation about the risk of potential adverse effects of your therapy for the unborn child and genetic consultation is recommended.

If pregnancy occurs during your treatment with Bendamustine you must immediately inform your doctor and should use genetic consultation.

Pregnancy precautions for men and women

Men:

Men subject to treatment with Bendamustine should avoid fathering a child during treatment with Bendamustine and for up to 6 months after treatment has stopped. *Women*:

If you are a women of child-bearing potential you must use effective contraceptive measures both before and during treatment.

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Bendamustine

Bendamustine HCl 25 mg or 100 mg IRL

Breast-feeding

Fertility

Women:

Bendamustine must not be administered during breast-feeding. If treatment with Bendamustine is necessary during lactation you must discontinue breast-feeding.

There is a risk that the treatment with Bendamustine will lead to infertility in men. Male patients who wish to have children after the end of the treatment should seek advice on conservation of sperm before treatment starts.

Female patients who wish to have children after the end of the treatment should talk to their doctor for advice.

Driving and using machines

Bendamustine hydrochloride has major influence on the ability to drive and use machines. Do not drive or operate machines if you experience side effects, such as dizziness or lack of coordination.

3. How to use Bendamustine

Always use this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.

Bendamustine is administered into a vein over 30-60 minutes in various dosages either alone (monotherapy) or in combination with other medicines.

Treatment should not be started if your white blood cells (leukocytes) and/or your blood platelets have fallen to counts below determined levels. Your doctor will determine these values at regular intervals.

Chronic lymphocytic leukaemia

Chrome lymphocytic leukaenna	
Bendamustine 100 mg per square metre of your body surface	on Days
area (based on your height and weight)	1 + 2
Repeat the cycle after 4 weeks upto 6 times	
Non-Hodgkin's lymphomas	
Bendamustine 120 mg per square metre of your body surface area	on Days
(based on your height and weight)	1 + 2
Repeat the cycle after 3 weeks at least 6 times	
Multiple myeloma	
Bendamustine 120 - 150 mg per square metre of your body	on Days
surface area (based on your height and weight)	1+2
Prednisone 60 mg per square metre of your body surface area	on Days
(based on your height and weight) by injection or orally	1-4
Repeat the cycle after 4 weeks at least 3 times	
Treatment should be terminated if white blood cell (leukocyte) and/ dropped to determined levels. Treatment can be continued after wh platelet values have increased.	1
Impaired liver or kidney function	

Impaired liver or kidney function

Dependent on the degree of impairment of your liver function it may be necessary to adjust your dose (by 30% in case of moderate liver dysfunction). No dose adjustment is necessary in case of impairment of kidney function. Your attending doctor will decide whether a dosage adjustment is necessary.

How it is administered

Treatment with Bendamustine should be undertaken only by doctors experienced in tumour therapy. Your doctor will give you the exact dose of Bendamustine and use the necessary precautions.

Your attending doctor will administer the solution for infusion after preparation as prescribed. The solution is administered into a vein as a short-term infusion over 30 - 60 minutes.

Duration of use

There is no time limit laid down as a general rule for treatment with Bendamustine. Duration of treatment depends on disease and response to treatment.

If you are at all worried or have any questions regarding treatment with Bendamustine, please speak to your doctor or nurse.

If you forget to use Bendamustine

If a dose of Bendamustinehas been forgotten, your doctor will usually retain the normal dosage schedule.

If you stop using Bendamustine

The doctor treating you will decide whether to interrupt the treatment or to change over to a different preparation.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Some of the findings listed below may be found after tests performed by your doctor. Tissue decay (necrosis) has been observed very rarely following leakage of Bendamustine into the tissue outside blood vessels (extravascular). A burning sensation where the infusion needle is inserted may be a sign of leakage outside the

blood vessels. The consequence can be pain and poorly healing skin defects. The dose-limiting side-effect of Bendamustine is impaired bone-marrow function, which usually returns to normal after treatment. Suppressed bone marrow function may lead to low counts of blood cells, which in turn may lead to an increased risk of infection, anemia or a heightened risk of bleeding.

Very common (may affect more than 1 in 10 people)

- Low counts of white blood cells (disease fighting cells in your blood)
- Decrease in the red pigment of the blood (haemoglobin: a protein in red blood cells that carries oxygen throughout the body)
- Low counts of platelets (colorless blood cells that help blood clot)
- Infections
- Feeling sick (nausea)Vomiting
- Mucosal inflammation
- Increased blood level of creatinine (a chemical waste product that is produced
- by your muscle)
- Increased blood level of urea (a chemical waste product)
- Fever
- Fatigue
- Headache
- Common (may affect up to 1 in 10 people):
- Bleeding (haemorrhage)
- Disturbed metabolism caused by dying cancer cells releasing their contents into the blood stream.
- Reduction in red blood cells which can make the skin pale and cause weakness or breathlessness (anaemia)
- Low counts of neutrophils (a common type of white blood cell important to fighting off infections)
- Hypersensitivity reactions such as allergic inflammation of the skin (dermatitis), nettle rash (urticaria)
- A rise in liver enzymes AST/ALT (which may indicate inflammation or damage to cells in the liver)
- A rise in the enzyme alkaline phosphatase (an enzyme made mostly in the liver and bones)

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use of corticosteroids are not of efit (see section 4).

- A rise in bile pigment (a substance made during the normal breakdown of red blood cells)
- Low potassium blood levels (a nutrient that is necessary for the function of nerve and muscle cells, including those in your heart)
- Disturbed function (dysfunction) of the heart such as feeling your heartbeat (palpitations) or chest pain (angina pectoris)
- Disturbed heart rhythms (arrhythmia)
- Low or high blood pressure (hypotension or hypertension)
- Disturbed lung function
- Diarrhoea
- Constipation
- Sore mouth (Stomatitis)
- Loss of appetite (anorexia)
- Hair loss
- Skin changes - Missed periods (amenorrhoea)
- Pain
- Insomnia
- Chills
- Dehydration
- Dizziness
- Itchy rash (urticaria)

Uncommon (may affect up to 1 in 100 people):

- Accumulation of fluid in the heart sac (escape of fluid into the pericardial space)
- Ineffective production of blood cells in the bone marrow (the spongy material inside your bones where blood cells are made)
- Acute leukemia - Heart attack, chest pain (myocardial infarction)
- Heart failure
- Rare (may affect up to 1 in 1,000 people):
- Infection of the blood (sepsis)
- Severe allergic hypersensitivity reactions (anaphylactic reactions) Reduction in your bone marrow function, which may make you feel unwell
- or show up in your blood tests - Signs similar to anaphylactic reactions (anaphylactoid reactions)
- Drowsiness
- Loss of voice (aphonia)
- Acute circulatory collapse (failure of blood circulation mainly from a cardiac origin with failure to maintain the supply of oxygen and other nutrients to the tissues and removing toxins)
- Reddening of the skin (erythema)
- Inflammation of the skin (dermatitis)
- Itching (pruritus)
- Skin rash (macular exanthema)

- Excessive sweating (hyperhidrosis)

Very rare (may affect up to 1 in 10,000 people):

- Primary atypical inflammation of the lungs (pneumonia)
- Break-down of red blood cells
- Rapid decrease in blood pressure sometimes with skin reactions or rash (anaphylactic shock)
- Disturbed sense of taste
- Altered sensations (paraesthesia)
- Malaise and pain in the limbs (peripheral neuropathy)
- Serious condition resulting in the blockade of specific receptor in the
- nervous systems
- Disorders of the nervous system

- Lack of coordination (ataxia)
- Inflammation of the brain (encephalitis)
- Increased heart rate (tachycardia)
- Inflammation of the veins (phlebitis)
- Formation of tissue in the lungs (fibrosis of the lungs)
- Bleeding inflammation of the gullet (haemorrhagic oesophagitis)
- Bleeding of stomach or gut
- Infertility
- Multiple organ failure
- *Not known (frequency cannot be estimated from the available data)*
- Liver failure
- Renal failure
- Irregular and often rapid heart rate (atrial fibrillation)
- Painful red or purplish rash that spreads and blisters and/or other lesions begin to appear in the mucous membranes (e.g. mouth and lips), in particular if you had before light sensitivity, infections of the respiratory system (e.g. bronchitis) and/or fever.
- Drug rash in combination therapy with rituximab
- Pneumonitis
- Bleeding from the lungs

There have been reports of tumours (myelodysplastic syndrome, acute myeloid leukaemia (AML), bronchial carcinoma) following treatment with bendamustine hydrochloride. No clear relationship with bendamustine hydrochloride could be determined.

Contact your doctor or seek medical attention immediately if you notice any of the following side effects (frequency not known):

Serious skin rashes including Stevens-Johnson syndrome and toxic epidermal necrolysis. These can appear as reddish target-like macules or circular patches often with central blisters on the trunk, skin peeling, ulcers of mouth, throat, nose, genitals and eyes and can be preceded by fever and flu-like symptoms.

Widespread rash, high body temperature, enlarged lymph nodes and other body organs involvement (Drug Reaction with Eosinophilia and Systemic Symptoms which is also known as DRESS or drug hypersensitivity syndrome).

If any of the side effects gets serious, or if you notice any side effects not listed in this leaflet, please tell your doctor.

Reporting of side effects

If you get any side effects, talk to your doctor, or pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system.

HPRA Pharmacovigilance

Website: www.hpra.ie

By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Bendamustine

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the vial and carton after EXP. The expiry date refers to the last day of that month.

This medicine does not require any special storage conditions.

Note on shelf-life after opening or preparing the solution

Solutions for infusions prepared according to the directions listed at the end of this leaflet are stable in polyethylene bags at room temperature / 60% relative humidity for 3.5 hours, and in a refrigerator they are stable for 2 days. Bendamustine contains no preservatives. The solutions should not therefore be used after these lengths of time.

From a microbiological point of view, the solution should be used immediately If not used immediately, in-use storage times and conditions prior to use are the responsibility of the user and would normally not be longer than 24 hours at 2 to 8°C unless reconstitution/dilution has taken place in controlled and validated aseptic conditions.

Do not use this medicine if you notice any visible signs of deterioration.

Do not throw away any medicines via wastewater or household waste. Asl your pharmacist how to throw away medicines you no longer use. Thes measures will help protect the environment.

6. Contents of the pack and other information

What Bendamustine contains

- The active substance is bendamustine hydrochloride.
- 1 vial contains 25 mg of bendamustine hydrochloride 1 vial contains 100 mg of bendamustine hydrochloride

After reconstitution 1 ml of the concentrate contains 2.5 mg bendamustin hydrochloride.

- The other ingredient is mannitol.

What Bendamustine looks like and contents of the pack

Amber glass vials with chlorobutyl rubber stopper and sealed with green of blue aluminium flip off overseal.

The powder appears white to off-white lyophilized powder or cake.

Bendamustine is available in packs containing 1, 5, 10 and 20 vials with 25 mg of bendamustine hydrochloride and 1 and 5 vials with 100 mg o endamustine hydrochloride.

Marketing Authorisation Holder

Fresenius Kabi Deutschland GmbH Else-Kröner-Straße 1,

61352 Bad Homburg v.d.Höhe Germany

Manufacturer:

Fresenius Kabi Deutschland GmbH Pfingstweide 53 61169 Friedberg Germany

This medicine is authorised in the Member States of the European Economic Area and in the United Kingdom (Northern Ireland) under the following names:

	Bendamustin Kabi 2,5 mg/ml Pulver für ein Konzentra
Austria	zur Herstellung einer Infusionslösung
Czech	Bendamustine Kabi 2,5 mg/ml
Republic	
	Bendamustin Kabi 2,5 mg/ml prašak za koncentrat za
Croatia	otopinu za infuziju
Denmark	Bendamustine Fresenius Kabi
Estonia	Bendamustine Kabi
	Bendamustine Fresenius Kabi 2,5 mg/ml kuiva-aine
Finland	välikonsentraatiksi infuusionestettä varten, liuos
	Bendamustine Kabi 2,5 mg/ml por oldatos infúzióhoz
Hungary	való koncentrátumhoz
	Bendamustine HCl 25 mg or 100 mg powder for
Ireland	concentrate for solution for infusion
	Bendamustine Kabi 2,5 mg/ml pulveris infūziju šķīdum
Latvia	koncentrāta pagatavošanai

	Bendamustin Kabi 2,5 mg/ml Pulver für ein Konzentrat
Lichtenstein	zur Herstellung einer Infusionslösung
	Bendamustine 2.5 mg/ml powder for concentrate
Malta	for solution for infusion
Norway	Bendamustine Fresenius Kabi
Poland	Bendamustine Kabi
Portugal	Bendamustina Kabi
Slovak	Bendamustine Kabi 2,5 mg/ml
Republic	
	Bendamustin Kabi 2,5 mg/ml prašek za koncentrat za
Slovenia	raztopino za infundiranje
	Bendamustina Kabi 2,5 mg/ml polvo para concentrado
Spain	para solución para perfusión EFG
	Bendamustine Fresenius Kabi 2.5 mg/ml poeder
Belgium	voor concentraat voor oplossing voor infusie
	Bendamustine Fresenius Kabi 2,5 mg/mL, poudre pour
France	solution à diluer pour perfusion
	Bendamustin Kabi 2,5 mg/ml Pulver für ein Konzentrat
Germany	zur Herstellung einer Infusionslösung
Italy	Bendamustina Kabi
	Bendamustine Kabi 2,5 mg/ml milteliai infuzinio tirpalo
Lithuania	koncentratui
	Bendamustin Kabi 2,5 mg/ml Pulver für ein Konzentrat
Luxembourg	zur Herstellung einer Infusionslösung
	Bendamustine Fresenius Kabi 2.5 mg/ml poeder
Netherlands	voor concentraat voor oplossing voor infusie
	Bendamustine Fresenius Kabi 2,5 mg/ml pulver till
Sweden	koncentrat till infusionsvätska, lösning
	Bendamustină Kabi 2,5 mg/ml pulbere pentru concentrat
Romania	pentru soluție perfuzabilă
United	Bendamustine 2.5 mg/ml powder for concentrate
Kingdom	for solution for infusion

This leaflet was last revised in March 2022