## Package leaflet: Information for the patient

#### Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You 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 or
- others. It may harm them, even if their signs of illness are the same
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See

#### What is in this leaflet

- 1. What Nilotinib is and what it is used for
- 2. What you need to know before you take Nilotinib
- 3. How to take Nilotinib
- 4. Possible side effects
- How to store Nilotinib
- 6. Contents of the pack and other information

## 1 What Nilotinib is and what it is used for

### What Nilotinib is

Nilotinib is a medicine containing an active substance called nilotinib

#### What Nilotinib is used for

Talk to your doctor or pharmacist before taking Nilotinib if you: Nilotinib is used to treat a type of leukaemia called Philadelphia chromosome positive chronic myeloid leukaemia (Ph-positive CML) CML is a cancer of the blood which makes the body produce too many

CML or in patients with CML who are no longer benefiting from previou treatment including imatinib. It is also used in adult and paediatric patients who experienced serious side effects with previous treatment and are not able to continue taking it. are being treated with medicines that lower your blood choleste

a signal that tells the body to produce abnormal white blood cells. Nilotinib blocks this signal, and thus stops the production of these cells.

Regular tests, including blood tests, will be performed during treatment. These tests will monitor:

- the amount of blood cells (white blood cells, red blood cells and stomach (total gastrectomy) platelets) in the body to see how Nilotinib is tolerated.
- pancreas and liver function in the body to see how Nilotinib • the electrolytes in the body (potassium, magnesium). These are
- important in the functioning of the heart.
- the level of sugar and fats in the blood.

If you have any questions about how Nilotinib works or why it has been

 the heart rate will also be checked using a machine that measures electrical activity of the heart (a test called an "ECG")

Your doctor will regularly evaluate your treatment and decide whether you should continue to take Nilotinib. If you are told to discontinue this medicine, your doctor will continue to monitor your CML and may tell you to re-start Nilotinib if your condition indicates that this is necessary.

### 2 What you need to know before you take Nilotinib

Follow all the doctor's instructions carefully. They may differ from the general information contained in this leaflet.

#### Do not take Nilotinih

prescribed for you or your child, ask your doctor.

 if you are allergic to nilotinib or any of the other ingredients of this medicine (listed in section 6)

(statins), or affect the heartbeat (anti-arrhythmics) or the liver (see

If you think you may be allergic, tell your doctor before taking Nilotinik

Warnings and precautions

 have suffered prior cardiovascular events such as a heart attack. chest pain (angina), problems with the blood supply to your brain (stroke) or problems with the blood flow to your leg (claudication) abnormal white blood cells. if you have risk factors for cardiovascular disease such as high blood Nilotinib is used in adult and paediatric patients with newly diagnosed pressure (hypertension), diabetes or problems with the level of fats in

your blood (lipid disorders). have a heart disorder, such as an abnormal electrical signal called "prolongation of the QT interval".

#### How Nilotinib works

Other medicines and Nilotinib). In patients with CML, a change in DNA (genetic material) triggers suffer from lack of potassium or magnesium. have a liver or pancreas disorder.

 have symptoms such as easy bruising, feeling tired or short of breath or have experienced repeated infections. have had a surgical procedure involving the removal of the entire

- have ever had or might now have a hepatitis B infection. This is
  - because Nilotinib could cause hepatitis B to become active again. which can be fatal in some cases. Patients will be carefully checked by their doctor for signs of this infection before treatment is started. If any of these apply to you or your child, tell your doctor.

#### During treatment with Nilotinib

- if you faint (loss of consciousness) or have an irregular heart beat while taking this medicine, tell vour doctor immediately as this ma be a sign of a serious heart condition. Prolongation of the QT interva used to treat infections: or an irregular heart beat may lead to sudden death. Uncommo cases of sudden death have been reported in patients taking niloting
- if you have sudden heart palpitations, severe muscle weakness or carbamazepine, phenobarbital, phenytoin – used to treat epileps paralysis, seizures or sudden changes in your thinking or level of alertness, tell your doctor immediately as this may be a sign of a fast breakdown of cancer cells called tumour lysis syndrome. Rare cases of tumour lysis syndrome have been reported in patients treated with nilotinih
- if you develop chest pain or discomfort, numbness or weakness problems with walking or with your speech, pain, discolouration of a cool feeling in a limb, tell your doctor immediately as this may be a sign of a cardiovascular event. Serious cardiovascular events including problems with the blood flow to the leg (peripheral arterial the liver, heart and kidney: occlusive disease), ischaemic heart disease and problems with the blood supply to the brain (ischaemic cerebrovascular disease) have been reported in patients taking nilotinib. Your doctor should assess the level of fats (lipids) and sugar in your blood before initiating clots or thromboses): treatment with nilotinib and during treatment
- if you develop swelling of the feet or hands, generalised swelling rapid weight gain tell your doctor as these may be signs of severe fluid retention. Uncommon cases of severe fluid retention have been reported in patients treated with nilotinib

f you are the parent of a child who is being treated with Nilotinib, tell the doctor if any of the above conditions apply to your child.

### Children and adolescents

Nilotinib is a treatment for children and adolescents with CML. There is no experience with the use of this medicine in children below 2 years of age. There is no experience with the use of Nilotinib in newly diagnosed children below 10 years of age and limited experience in patients below 6 years of

age who are no longer benefiting from previous treatment for CML In addition, tell your doctor or pharmacist before taking nilotinib it are taking any antacids, which are medicines against heartburn. These

Some children and adolescents taking nilotinib may have slower t medicines need to be taken separately from nilotinib: normal growth. The doctor will monitor growth at regular visits. H2 blockers, which decrease the production of acid in the stomach

approximately 2 hours after you take Nilotinib:

stomach. These antacids should be taken approximately 2 hours

before or approximately 2 hours after you take Nilotinib.

#### Other medicines and Nilotinib

Nilotinib may interfere with some other medicines

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. This includes in particular:

- anti-arrhythmics used to treat irregular heart beat: chloroquine, halofantrine, clarithromycin, haloperidol, methadone
- moxifloxacin medicines that may have an unwanted effect on the electrical activity of the heart: ketoconazole, itraconazole, voriconazole, clarithromycin, telithromycin during nilotinib treatment
- Nilotinib with food and drink ritonavir – a medicine from the class "antiproteases" used to Do not take Nilotinib with food. Food may enhance the absorption
- rifampicin used to treat tuberculosis:
- St. John's Wort a herbal product used to treat depression and other conditions (also known as Hypericum perforatum):
- midazolam used to relieve anxiety before surgery: alfentanil and fentanyl – used to treat pain and as a sedative before Nilotinib is not recommended during pregnancy unless clearly
- during surgery or medical procedures; necessary. If you are pregnant or think that you may be, tell your ciclosporin, sirolimus and tacrolimus – medicines that suppress doctor who will discuss with you whether you can take this medicine the "self-defence" ability of the body and fight infections and are commonly used to prevent the rejection of transplanted organs such as Women who might get pregnant are advised to use highly effective contraception during treatment and for up to two weeks after
- dihydroergotamine and ergotamine used to treat dementia: ending treatment
- lovastatin, simvastatin used to treat high level of fats in blood Breast-feeding is not recommended during treatment with niloti warfarin – used to treat blood coagulation disorders (such as blood and for two weeks after the last dose. Tell your doctor if you are
- astemizole, terfenadine, cisapride, pimozide, quinidine, bepridil o If you are pregnant or breast-feeding, think you may be pregnant or ergot alkaloids (ergotamine, dihydroergotamine). are planning to have a baby, ask your doctor or pharmacist for advice

These medicines should be avoided during your treatment with ni before taking this medicine. If you are taking any of these, your doctor might prescribe other Driving and using machines alternative medicines. If you experience side effects (such as dizziness or visual disorders

If you are taking a statin (a type of medicine to lower your blood with a potential impact on the ability to safely drive or use any tools cholesterol), talk to your doctor or pharmacist. If used with certain or machines after taking this medicine, you should refrain from these statins, nilotinib may increase the risk of statin-related muscle activities until the effect has disappeared roblems, which on rare occasions can lead to serious muscle reakdown (rhabdomyolysis) resulting in kidney damage.

Nilotinib 100 mg and 200 mg capsules contain lactose

This medicine contains lactose (also known as a milk sugar). If you have

been told by your doctor that you have an intolerance to some sugars contact your doctor before taking this medicine.

#### H2 blockers should be taken approximately 10 hours before and Nilotinib 200 mg capsules also contain sodium This medicine contains less than 1 mmol sodium (23 mg) per capsule

 antacids such as those containing aluminium hydroxide, magnesia that is to say essentially sodium free. hydroxide and simethicone, which neutralise high acidity in the

### 3. How to take Nilotinib

Always take this medicine exactly as your doctor or pharmacist has tol ou should also tell your doctor **if you are already taking** nilotin you. Check with your doctor or pharmacist if you are not sure. you are prescribed a new medicine that you have not taken previous

# How much Nilotinib to take

- Patients newly diagnosed with CML: The recommended dose is of nilotinib and therefore increase the amount of nilotinib in the 600 mg per day. This dose is achieved by taking two hard capsules blood, possibly to a harmful level. Do not drink grapefruit juice or eat 150 mg twice a day grapefruit. It may increase the amount of nilotinib in the blood, poss Patients who are no longer benefiting from previous treatmen
  - for CML: The recommended dose is 800 mg per day. This dose is achieved by taking two hard capsules of 200 mg twice a day.

Use in children and adolescents

- The dose given to your child will depend on your child's body weigh and height. The doctor will calculate the correct dose to use and tel you which and how many capsules of Nilotinib to give to your child Do not stop taking this medicine unless your doctor tells you to do so. The total daily dose you give to your child must not exceed 800 mg
- Your doctor may prescribe a lower dose depending on how you respond to treatment.

### Older people (age 65 years and over)

Nilotinib can be used by people aged 65 years and over at the same dose as for other adults.

#### When to take Nilotinib Take the hard capsules:

- twice a day (approximately every 12 hours):
- at least 2 hours after any food:
- then wait 1 hour before eating again. If you have questions about when to take this medicine, talk to your

doctor or pharmacist. Taking Nilotinib at the same time each day will help you remember when to take your hard capsules.

### How to take Nilotinib

- Swallow the hard cansules whole with water.
- Do not take any food together with the hard capsules.
- Do not open the hard capsules. If you or your child are not able to swallow the whole capsule, other medicines with nilotinib should be used instead of Nilotinib hard capsules.

## How long to take Nilotinih

Continue taking Nilotinib every day for as long as your doctor tells you. This is a long-term treatment. Your doctor will regularly monitor your condition to check that the treatment is having the desired effect.

Your doctor may consider discontinuing your treatment with Nilotinib based on specific criteria. If you have questions about how long to take Nilotinib talk to your

#### If you take more Nilotinib than you should If you have taken more Nilotinib than you should have, or if someone

else accidentally takes your hard capsules, contact a doctor or hospit for advice straight away. Show them the pack of hard capsules and the package leaflet. Medical treatment may be necessary.

## If you forget to take Nilotinib

If you miss a dose, take your next dose as scheduled. Do not take a double dose to make up for a forgotten hard capsule.

### If you stop taking Nilotinib

Stopping Nilotinib without your doctor's recommendation places you at risk for worsening of your disease which could have life-threatening consequences. Be sure to discuss with your doctor, nurse, and/or pharmacist if you are considering stopping Nilotinib

have discontinued Nilotinib and may tell you to re-start Nilotinib if you

# If your doctor recommends that you discontinue treatment with

condition indicates that this is necessary.

doctor or pharmacist.

- Your doctor will regularly evaluate your treatment with a specific
- diagnostic test and decide whether you should continue to take this • blood disorders: fever, easy bruising or unexplained bleeding, severe medicine. If you are told to discontinue Nilotinib your doctor will
  - clotting within a vein: swelling and pain in one part of the body
  - nervous system disorders: weakness or paralysis of the limbs of
- If you have any further questions on the use of this medicine, ask your confusion, disorientation, trembling, sensation of tingling, pain or numbness in fingers and toes

Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them. Most of the side effects are mild to moderate and will generally disappear after a few days to a few weeks of treatment. • liver disorders: vellow skin and eves, nausea, loss of appetite, dark-

# Some side effects which could be serious are signs of

- musculoskeletal pain: pain in joints and muscles heart disorders: chest pain or discomfort, high or low blood pressure
- irregular heart rhythm (fast or slow), palpitations (sensation of rapid heartbeat), fainting, blue discolouration of the lips, tongue or skin
- artery blockage: pain, discomfort, weakness or cramping in the leg muscles, which may be due to decreased blood flow, ulcers on the legs or arms that heal slowly or not at all and noticeable changes in colour (blueness or paleness) or temperature (coolness) of the
- underactive thyroid gland; weight gain, tiredness, hair loss, muscle
- overactive thyroid gland; fast heartbeat, bulging eyes, weight loss. swelling at the front of the neck
- kidney or urinary tract disorders: thirst, drv skin, irritability, dark urine, decreased urine output, difficulty and pain when urinating exaggerated sense of needing to urinate, blood in urine, abnormal
- high blood level of sugar: excessive thirst, high urine output. increased appetite with weight loss, tiredness
- vertigo: dizziness or spinning sensation

affected leg, arm, toes or fingers

- pancreatitis: severe upper (middle or left) abdominal pain
- skin disorders: painful red lumps, skin pain, skin reddening, peeling of
  - water retention: rapid weight gain, swelling of hands, ankles, feet or
- migraine: severe headache often accompanied by nausea, vomiting and sensitivity to light
- or frequent infections, unexplained weakness continue to carefully monitor your CML before, during and after you

  - face, difficulty speaking, severe headache, seeing, feeling or hearing things that are not there, changes in evesight, loss of consciousness

- lung disorders: difficulty breathing or painful breathing, cough wheezing with or without fever, swelling of the feet or leas
- gastrointestinal disorders: abdominal pain, nausea, vomiting of blood black or bloody stools, constipation, heartburn, stomach acid reflux
  - liver infection: recurrence (reactivation of hepatitis B infection)
  - eve disorders: visual disturbances including blurred vision, double
  - vision, or perceived flashes of light, decreased sharpness or loss of vision, blood in eve, increased sensitivity of the eves to light, eve pain, redness, itching or irritation, dry eye, swelling or itching of the electrolyte imbalance: nausea, shortness of breath, irregular
  - heartbeat, clouding of urine, tiredness and/or joint discomfort associated with abnormal results of blood tests (such as high levels of potassium, uric acid and phosphorous and low levels of calcium)

Contact your doctor immediately if you notice any of the above side

## Other sides effects

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

- headache
- lack of energy
- muscle pain itching, rash
- nausea

- hair loss pain in limbs, bone pain and spinal pain on discontinuing treatment
- slowing of growth in children and adolescents
- upper respiratory tract infection including sore throat and runny or stuffy nose, sneezing
- low level of blood cells (red cells, platelets) or haemoglobin high blood level of lipase (pancreas function)
  - high blood level of bilirubin (liver function)
- high blood level of alanine aminotransferases (liver enzymes)

## Common (may affect up to 1 in 10 people)

- nneumonia
- abdominal pain, stomach discomfort after meals, flatulence, swelling or bloating of the abdomen
- bone pain, muscle spasms
- pain (including neck pain) dry skin, acne, decreased skin sensitivity
- weight decrease or increase
- insomnia, depression, anxiety night sweats, excessive sweating
- generally feeling unwell
- nose bleed
- signs of gout: painful and swollen joints inability to achieve or maintain an erection
- flu-like symptoms
- sore throat
- bronchitis
- ear pain, hearing noises (e.g. ringing, humming) in the ears that have no external source (also called tinnitus)
- haemorrhoids
- heavy periods itching at the hair follicles
- oral or vaginal thrush
- signs of conjunctivitis: discharge from the eye with itching, redness and swelling
- eve irritation, red eves
- signs of hypertension: high blood pressure, headache, dizziness
- signs of peripheral arterial occlusive disease; pain, discomfort weakness or cramping in the leg muscles, which may be due to nipple swelling decreased blood flow, ulcers on the legs or arms that heal slowly o not at all and noticeable changes in colour (blueness or paleness or temperature (coolness) of the legs or arms (possible signs of a blocked artery in the affected leg, arm, toes or fingers)
- shortness of breath (also called dysphoea)
- mouth sores with gum inflammation (also called stomatitis)
- high blood level of amylase (pancreas function) high blood level of creatinine (kidney function)
- high blood level of alkaline phosphatase or creatine phosphokinase
- high blood level of aspartate aminotransferases (liver enzymes)
- high blood level of gamma glutamyltransferases (liver enzymes) signs of leukopenia or neutropenia: low level of white blood cells
- increase in the number of platelets or white cells in the blood

- low blood level of magnesium, potassium, sodium, calcium or increased blood level of potassium, calcium or phosphorus
- high blood level of fats (including cholesterol)
- **Uncommon** (may affect up to 1 in 100 people)
- allergy (hypersensitivity to nilotinib)
- dry moùth

high blood level of uric acid

- pain or discomfort on the side of the body
- increased appetite
- breast enlargement in men hernes virus infection
- muscle and joint stiffness, joint swelling
- feeling body temperature change (including feeling hot, feeling cole
- disturbed sense of taste
- signs of inflammation of the stomach lining; abdominal pain, nausea. vomiting .diarrhoea, bloating of the abdomen
- skin cvst, thinning or thickening of the skin, thickening of the outermost layer of the skin, skin discolouration
- difficulty hearing ioint inflammation
- urinary incontinence
- inflammation of the intestine (also called enterocolitis)
- anal abscess
- symptoms of restless legs syndrome (an irresistable urge to move a part of the body, usually the leg, accompanied by uncomfortable sensations)
- shortness of breath or rapid breathing

- high blood level of parathyroid hormone (a hormone regulating calcium and phosphorus levels)
- high blood level of lactate dehydrogenase (an enzyme)

- signs of low blood level of sugar: nausea, sweating, weakness dizziness, trembling, headache
- dehydration
- difficulty concentrating
- tiredness (also called fatique)
- high blood level of urea (kidney function) sensation of numbness or tingling in the fingers and toes (also called peripheral neuropathy)
- red patch in the white of the eye caused by broken blood vessels.
- (also called conjunctival haemorrhage
- eve irritation
- frequent urine output crushing chest pain, tiredness, irregular heartbeat
  - fungal infection of the feet
- down, swelling of the feet or leas signs of psoriasis: thickened patches of red/silver skin
- increased sensitivity of the skin to light
- signs of sepsis: fever, chest pain, elevated/increased heart rate.
- skin infection (subcutaneous abscess)
- increase in specific types of white blood cells (called eosinophils)
- signs of lymphopenia: low level of white blood cells

- signs of pleuritic pain; chest pain signs of pleurisy: cough, painful breathing
- abnormal blood level of fat
- involuntary shaking (also called tremor)
- unpleasant and abnormal feeling when touched (also called dysaesthesia)
- paralysis of any muscle of the face
- blood in eves (also called eye haemorrhage)
- signs of heart attack (also called myocardial infarction); sudden and signs of heart murmur: tiredness, chest discomfort, light-headedness

  - signs of heart failure: breathlessness, difficulty breathing when lying
  - pain behind the breast bone (also called pericarditis)
  - signs of hypertensive crisis; severe headache, dizziness, nausea
  - leg pain and weakness brought on by walking (also called intermittent claudication)
  - signs of narrowing of the arteries of the limbs: possible high blood pressure, painful cramping in one or both hips, thighs or calf muscles after certain activities such as walking or climbing stairs, leg
  - numbness or weakness bruising (when you have not hurt yourself).
  - fatty deposits in the arteries that can cause blockage (also called arteriosclerosis)
  - signs of low blood préssure (also called hypotension): lightheadedness, dizziness or fainting
  - signs of pulmonary oedema: breathlessness.
  - signs of pleural effusion: fluid collection between the lavers of tissue that line the lungs and chest cavity (which, if severe, can decrease the heart's ability to pump blood), chest pain, cough, hiccups, rapid
  - signs of interstitial lung disease: cough, difficulty breathing, painful

### Reporting of side effects

If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the MHRA Yellow Card Scheme at: www.mhra.gov.uk/vellowcard or search for MHRA Yellow Card in the Google Play or Apple App Store. By reporting side effects you of help provide more information on the safety of this medicine.

### 5. How to store Nilotinib

• change in blood proteins (low level of globulins or presence Keep this medicine out of the sight and reach of children.

Do not store above 30°C.

- Do not use this medicine after the expiry date which is stated on the carton and blister after EXP. The expiry date refers to the last day of high blood level of unconjugated bilirubin.
- Rare (may affect up to people 1 in 1.000)
- Do not use this medicine if you notice that the pack is damaged or reddening and/or swelling and possibly peeling on the palms of hands and soles of the feet (so-called hand-foot syndrome) shows signs of tampering
- warts in the mouth

hoarse voice

of the lunas

sensitive teeth

high blood level of troponins

wheezing

- feeling of hardening or stiffness in the breasts • inflammation of the thyroid gland (also called thyroiditis)
- disturbed or depressed mood

signs of pulmonary hypertension: high blood pressure in the arterie

signs of inflammation (also called gingivitis); gum bleeding, tender or

- signs of secondary hyperparathyroidism; bone and joint pain excessive urination, abdominal pain, weakness, tiredness
- What Nilotinib contains signs of narrowing of the arteries in the brain; loss of vision in par or all of both eves. double vision, vertigo (spinning sensation)
- numbness or tingling, loss of coordination, dizziness or confusion • swelling of the brain (possible headache and/or mental
- signs of optic neuritis: blurred vision, loss of vision
- signs of heart dysfunction (ejection fraction decreased): tiredness. chest discomfort, light- headedness, pain, palpitations
- low or high blood level of insulin (a hormone regulating blood
- low blood level of insulin C peptide (pancreas function)
- sudden death

**Not known** (cannot be estimated from the available data):

 signs of heart dysfunction (ventricular dysfunction): shortness o breath, exertion at rest, irregular heartbeat, chest discomfort, lightheadedness, pain, palpitations, excessive urination, swelling in the feet, ankles and abdomen.

### What Nilotinib looks like and contents of the pack

Nilotinib 150 mg: - Hard gelatin capsule with red opaque cap and red opaque body imprinted with black ink "SMI" on the cap and "26" on the body containing off white to grey granular powder. Nilotinib 200 mg: - Hard gelatin capsule with light vellow opaque cap

and light vellow opaque body imprinted with red ink "SMI" on the cap and "27" on the body containing off white to grey granular powder. The capsules are packed in PVC/PVDC/Alu blisters or perforated unit

Pack sizes:

28 hard capsules in blisters.

28x1 hard capsules in perforated unit dose blisters.

Multipack containing 112 (4 packs of 28) or 392 (14 packs of 28) hard capsules in blisters.

Multipack containing 112x1 (4 packs of 28x1) or 392x1 (14 packs of 28x1) hard capsules in perforated unit dose blisters.

Not all pack sizes may be marketed.

#### 6. Contents of the pack and other information

Do not throw away any medicines via wastewater or household

longer use. These measures will help protect the environment.

waste. Ask your pharmacist how to throw away medicines you no

- The active substance is nilotinib.
- Each 150 mg hard capsule contains 150 mg nilotinib. United Kinadom
- Each 200 mg hard capsule contains 200 mg nilotinib. The other ingredients are:
- Ressistraße 9 Lactose monohydrate, crospovidone (E1202), polysorbate 80. 9065 Ebenthal in Kärnten. magnesium aluminometasilicate, colloidal silicon dioxide (E551) magnesium stearate (E572)

- Gelatin (F441), titanium dioxide (F171), iron oxide vellow (F172)
- The 150 mg capsule shells also contains iron oxide red (£172).
- The printing ink on the 150 mg capsules contains, shellac (E904). black iron oxide (E172), potassium hydroxide (E525).
- The printing ink on the 200 mg capsules contains, shellac (F904) sodium hydroxide (E524), titanium dioxide (E171), povidone (E1201) Allura red AC aluminium lake (E129).

### Marketing Authorisation Holder:

Zentiva Pharma UK Limited. 2 New Fetter Lane. London, EC4A 1JP.

Marketing Authorisation Holder and Manufacture

Manufacturer(s): APIS Labor GmbH.

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