

Nerviton®

Mecobalamin

Description

Mecobalamin (Nerviton®) is the biologically active form of Vit B₁₂ which is 130-150 times more potent than other B₁₂ homologues.

Mode of action

Mecobalamin (Nerviton®) acts as a cofactor in the enzyme methionine synthetase which functions to transfer methyl groups for the regeneration of methionine from homocysteine and helps to restore normal levels of DNA and RNAs in nerve cells. It also enhances the formation of lecithin which is a major component of the myelin sheath.

Pharmacokinetics

Peak plasma concentration orally administered mecobalamin is dose-dependent.

Dose	t _{max} (hr)	C _{max} (pg/ml)	t _{1/2} (hr)
120 µg	2.8 ± 0.2	743± 47	N/A
1500 µg	3.6 ± 0.5	972± 55	12.5

50-90% of the dose may be excreted in urine within 48 hours, with the major portion being excreted in the first 8 hours.

Composition

Nerviton® Tablet: Each film coated tablet contains Mecobalamin INN 500 mcg.

Nerviton® Injection: Each 1 ml ampoule contains sterile Mecobalamin INN 500 mcg.

Indications

Peripheral neuropathies and megaloblastic anaemia.

Dosage and administration

Tablet: The usual adult dosage is 500 mcg tablet three times daily. The dosage should be adjusted according to the age of patient and the severity of symptoms.

Injection: The usual adult dosage is one ampoule equivalent to 500 mcg of Mecobalamin (Nerviton), administered intramuscularly or intravenously three times a week. The dosage should be adjusted according to the age of patient and the severity of symptoms.

Contraindications

Hypersensitivity to Mecobalamin.

Side effects

Generally Mecobalamin (Nerviton®) is well tolerated. However, a few side effects like GI discomfort (including anorexia, nausea or diarrhea) & rash may be seen after administration of Mecobalamin (Nerviton®).

Use in pregnancy & lactation

Not recommended during pregnancy & lactation.

Precautions

Serum potassium concentrations should be monitored during early vitamin B₁₂ therapy and potassium administered if necessary, since fatal hypokalemia could occur upon conversion of megaloblastic anemia to normal erythropoiesis with Mecobalamin (Nerviton®) as a result of increased erythrocyte potassium requirements. It should not be used in patients with early leber's disease (hereditary optic nerve atrophy).

Drug Interaction

Well tolerated, no significant drug interaction occurs.

Overdosage

At high enough dosages some vitamins cause side effects such as nausea, diarrhea, and vomiting. When side effects emerge, recovery is often accomplished by reducing the dosage.

Storage

Store in a cool and dry place, protected from light.

Packaging

Nerviton® Tablet: Each carton contains 10X5 tablets in blister strips.

Nerviton® Injection: Each carton contains 5X1 ampoules of 1 ml.

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