



## **Blood Doner**

### **Each soft gel capsule Contains**

#### **Composition**

Carbonyl Iron.....	92mg
Vitamin B12.....	15mcg
Folic Acid.....	1mg
Zinc Sulphate Monohydrate.....	61.8mg

#### **Indications**

Fight anemia effectively with Blood Doner. It also used in Neurological illness, Fatigue and general weakness All types of Neuropathy, Arthritis, Diabetes and CAD. Primary prevention in patients with hypertension, diabetes and hyperlipidemia. Secondary prevention in patients with Coronary Artery Disease, MI, Stroke, Dementia, Alzheimer's disease and depression.

#### **Description**

Mecobalamin and adenosylcobalamin are the two active forms of Vit B12 . Mecobalamin helps in the formation of myelin sheath, promotes growth and regeneration of nerve cells. Adenosylcobalamin is predominantly significant in liver and plays a vital role in detoxification and antioxidant mechanism of liver thus improves liver function. It plays major role in the conversion of methyl malonyl CoA to Succinyl CoA which enters into Krebs cycle and forms ATP (Energy rich molecule) which increases the energy level. Folic acid and methylcobalamin helps in remethylation of homocysteine. In this remethylation pathway a methyl group is transferred from methyltetrahydrofolate (MTHF), the active form of folic acid, to homocysteine.

Thereby, homocysteine converted back to methionine. This remethylation pathway is catalyzed by the enzyme methionine synthase requires methylcobalamin as a necessary co-factor.

An alternate remethylation pathway uses betaine (trimethylglycine), the oxidized form of choline, as the methyl donor. This remethylation reaction is catalyzed by the enzyme betaine-homocysteine methyltransferase (BHMT). This pathway is active primarily in liver and kidney cells.

Choline is an essential nutrient and it is a precursor for Betaine. Through oxidation reaction choline gets converted into betaine in the liver. Choline plays an important role in the metabolism of homocysteine and that response to post methionine load is very useful.

Vitamin B6 acts as a co-factor in trans-sulfuration pathway, where homocysteine irreversibly condenses with serine and forms cystathionine. This reaction is catalyzed by the enzyme cystathionine betasynthase. Further, cystathionine is converted into cysteine. This reaction also requires Vitamin B6 as a co-factor.





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**Dosage:** As per the physician's advice

**Presentations :** 10 Soft Gel Capsules

**Note :** This product information is intended only for residents of the India. Taj Pharmaceuticals Limited, medicines help to treat and prevent a range of conditions—from the most common to the most challenging—for people around the world.

### **Information for Health Care Professionals**

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