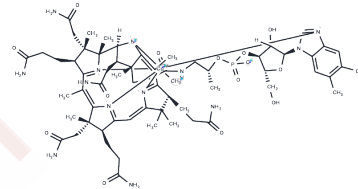


Methylcobalamin

Chemical Properties

CAS No. :	13422-55-4
Formula:	C ₆₃ H ₉₁ CoN ₁₃ O ₁₄ P
Molecular Weight:	1344.38
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Methylcobalamin (Brassinolide) is one active form of vitamin B12 which can directly participate in homocysteine metabolism. It is used to treat some nutritional diseases and other diseases in clinic, such as Alzheimer's disease and rheumatoid arthritis.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 16.32 mg/mL (12.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (1.49 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7438 mL	3.7192 mL	7.4384 mL
5 mM	0.1488 mL	0.7438 mL	1.4877 mL
10 mM	0.0744 mL	0.3719 mL	0.7438 mL
50 mM	0.0149 mL	0.0744 mL	0.1488 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kumudha A, et al. Food Chem. 2015 Mar 1;170:316-20.

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