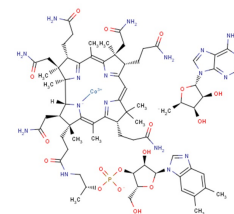


## Adenosylcobalamin

## Chemical Properties

CAS No.:	13870-90-1
Formula:	C72H99CoN18O17P
Molecular Weight:	1578.57
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Adenosylcobalamin is a biologically active form of vitamin B12. It is a cofactor for methylmalonyl CoA mutase. It belongs to the corrinoid group of compounds, which contain a corrin macrocycle, and is produced only by certain bacteria and archaea. It is a cofactor for various enzymes including mutases, eliminases, aminomutases, and a reductase.
Targets(IC <sub>50</sub> )	Others: None
In vitro	Adenosylcobalamin serves as the cofactor for a group of enzymes. It catalyze unusual rearrangement or elimination reactions[1].

## Solubility Information

Solubility	H2O: 4 mg/mL(2.53 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.633 mL	3.167 mL	6.335 mL
5 mM	0.127 mL	0.633 mL	1.267 mL
10 mM	0.063 mL	0.317 mL	0.633 mL
50 mM	0.013 mL	0.063 mL	0.127 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Kumudha A, et al. Characterization of vitamin B12 in Dunaliella salina. J Food Sci Technol. 2016 Jan;53(1):888-94.
2. Marsh EN, et al. Adenosylcobalamin enzymes: Theory and experiment begin to converge. Biochim Biophys Acta. 2012 Nov;1824(11):1154-64.

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481