

## Vitamin B12a hydrochloride

### Chemical Properties

CAS No. : 58288-50-9

Formula: C62H89CoN13O15P.xHCl

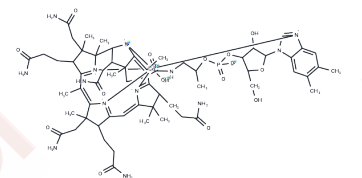
Molecular Weight:

Keep away from moisture, Keep away from direct sunlight

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	Vitamin B12a hydrochloride (Hydroxocobalamin hydrochloride) is the natural active form of vitamin B12 and is an essential water-soluble vitamin. It is commonly used as a cyanide detoxifier and nutritional supplement, and can be administered by injection, inhalation, or orally.
Targets(IC50)	Endogenous Metabolite
In vivo	In CPB-related vasoplegic shock, Vitamin B12a hydrochloride was given intravenously (5-10g, single dose). In 24 patients, it increased blood pressure within 30 minutes and reduced the need for vasopressors[1].

### Solubility Information

Solubility	H2O: 20 mg/mL, Sonication is recommended. DMSO: 80 mg/mL, Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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### Reference

Armour S, Armour TK, Joppa WR, Maltais S, Nelson JA, Wittwer E. Use of Hydroxocobalamin (Vitamin B12a) in Patients With Vasopressor Refractory Hypotension After Cardiopulmonary Bypass: A Case Series. *Anesth Analg.* 2019 Jul;129(1):e1-e4.

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