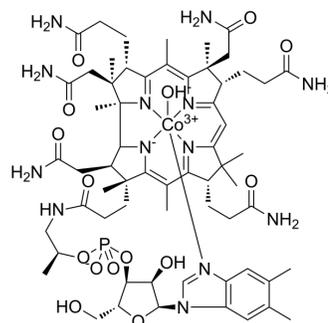


Hydroxocobalamin

| | |
|---------------------------|--|
| Cat. No.: | HY-B2209 |
| CAS No.: | 13422-51-0 |
| Molecular Formula: | C ₆₂ H ₈₉ CoN ₁₃ O ₁₅ P |
| Molecular Weight: | 1346.36 |
| Target: | Endogenous Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (18.57 mM; Need ultrasonic)

| Solvent | Mass | Concentration | | |
|---------------------------|-------|---------------|-----------|-----------|
| | | 1 mg | 5 mg | 10 mg |
| Preparing Stock Solutions | 1 mM | 0.7427 mL | 3.7137 mL | 7.4274 mL |
| | 5 mM | 0.1485 mL | 0.7427 mL | 1.4855 mL |
| | 10 mM | 0.0743 mL | 0.3714 mL | 0.7427 mL |

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Hydroxocobalamin (Vitamin B12a) is an injectable naturally occurring form of vitamin B12 with a favorable adverse effect profile, used as a dietary supplement in the treatment of vitamin B12 deficiency including pernicious anemia^{[1][2]}.

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Nat Commun. 2021 Nov 22;12(1):6786.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Cheungpasitporn W, et al. High-dose hydroxocobalamin for vasoplegic syndrome causing false blood leak alarm. Clin Kidney J. 2017 Jun;10(3):357-362.

[2]. Wang H, et al. Oral vitamin B12 versus intramuscular vitamin B12 for vitamin B12 deficiency. Cochrane Database Syst Rev. 2018 Mar 15;3:CD004655.

[3]. Greenberg SS, et al. Hydroxocobalamin (vitamin B12a) prevents and reverses endotoxin-induced hypotension and mortality in rodents: role of nitric oxide. J Pharmacol Exp Ther. 1995 Apr;273(1):257-65.

Caution: Product has not been fully validated for medical applications. For research use only.

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