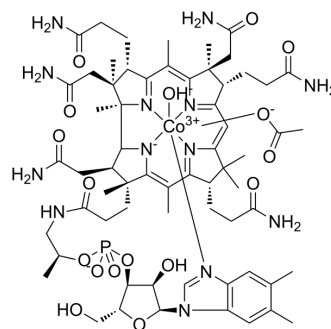


Hydroxocobalamin acetate

Cat. No.:	HY-B2209B
CAS No.:	22465-48-1
Molecular Formula:	C ₆₄ H ₉₂ CoN ₁₃ O ₁₇ P ⁻
Molecular Weight:	1405.4
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (71.15 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	0.7115 mL	3.5577 mL	7.1154 mL
		5 mM	0.1423 mL	0.7115 mL	1.4231 mL
	10 mM	0.0712 mL	0.3558 mL	0.7115 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (1.78 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (1.78 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Hydroxocobalamin acetate is an injectable naturally occurring form of vitamin B12 with a favorable adverse effect profile, used as a dietary supplement in the research of vitamin B12 deficiency including pernicious anemia ^{[1][2]} .
IC₅₀ & Target	Human Endogenous Metabolite

CUSTOMER VALIDATION

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

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

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