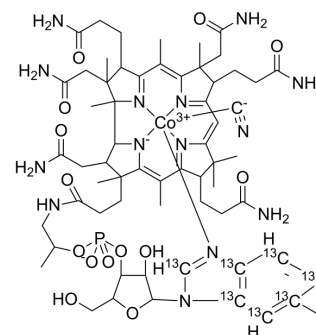


Vitamin B12-¹³C₇

Cat. No.:	HY-B0315S
Molecular Formula:	C ₅₆ ¹³ C ₇ H ₈₈ CoN ₁₄ O ₁₄ P
Molecular Weight:	1362.31
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Solution, -20°C, protect from light, 2 years



BIOLOGICAL ACTIVITY

Description	Vitamin B12- ¹³ C ₇ is the ¹³ C-labeled Vitamin B12. Vitamin B12 is a vitamin. Vitamin B12 plays a key role in the normal functioning of the brain and nervous system, and for the formation of blood[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. http://en.wikipedia.org/wiki/Vitamin_B12
- [3]. Banerjee, R. and S.W. Ragsdale, The many faces of vitamin B12: catalysis by cobalamin-dependent enzymes. *Annu Rev Biochem*, 2003. 72: p. 209-47.

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

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