Inhibitors

Methylmalonic acid-13C₄

Cat. No.: HY-103395S1 CAS No.: 1173019-21-0

Molecular Formula: 13C4H6O4 Molecular Weight: 122.06

Target: **Endogenous Metabolite** Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	Methylmalonic acid $^{-13}$ C ₄ is the 13 C labeled Methylmalonic acid[1]. Methylmalonic acid (Methylmalonate) is an indicator of Vitamin B-12 deficiency in cancer[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 Feb;53(2):211-216.

[2]. Vashi P, et al. Methylmalonic Acid and Homocysteine as Indicators of Vitamin B-12 Deficiency in Cancer. PLoS One. 2016 Jan 25;11(1):e0147843.

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

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