L-Methionine-$^{13}C,d_3$

Cat. No.: HY-N0326S2

CAS No.: 73488-65-0

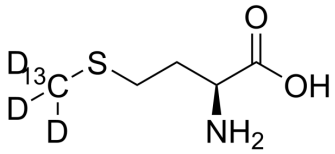
Molecular Formula: $C_4{}^{13}CH_8D_3NO_2S$

Molecular Weight: 153.22

Target: Endogenous Metabolite; Isotope-Labeled Compounds

Pathway: Metabolic Enzyme/Protease; Others

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

H_2O : 16.67 mg/mL (108.80 mM; Need ultrasonic)
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Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	6.5266 mL	32.6328 mL	65.2656 mL
	5 mM	1.3053 mL	6.5266 mL	13.0531 mL
	10 mM	0.6527 mL	3.2633 mL	6.5266 mL

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

BIOLOGICAL ACTIVITY

Description

L-Methionine-$^{13}C,d_3$ is the ^{13}C- and deuterium labeled L-Methionine. L-Methionine is the L-isomer of Methionine, an essential amino acid for human development. Methionine acts as a hepatoprotectant.

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.

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

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