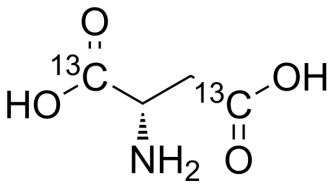
L-Aspartic acid-1,4-$^{13}C_2$

Cat. No.:	HY-N0666S6
CAS No.:	101247-29-4
Molecular Formula:	$C_2{}^{13}C_2H_7NO_4$
Molecular Weight:	135.09
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

1M NaOH : 100 mg/mL (740.25 mM; ultrasonic and adjust pH to 12 with NaOH)
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H_2O : 2 mg/mL (14.80 mM; ultrasonic and warming and heat to 60°C)
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DMSO : 1 mg/mL (7.40 mM; ultrasonic and warming and heat to 80°C)
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Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	7.4025 mL	37.0124 mL	74.0247 mL
5 mM	1.4805 mL	7.4025 mL	14.8049 mL
10 mM	0.7402 mL	3.7012 mL	7.4025 mL

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

BIOLOGICAL ACTIVITY

Description

L-Aspartic acid-1,4-$^{13}C_2$ is the ^{13}C-labeled L-Aspartic acid. L-Aspartic acid is is an amino acid, shown to be a suitable proagent for colon-specific agent deliverly.

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.

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