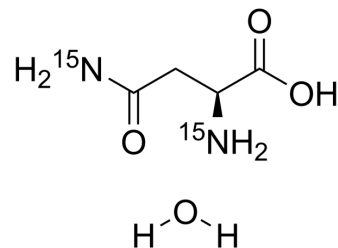


L-Asparagine-¹⁵N₂ monohydrate

Cat. No.:	HY-N0667S2
CAS No.:	287484-32-6
Molecular Formula:	C ₄ H ₁₀ ¹⁵ N ₂ O ₄
Molecular Weight:	152.12
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 6.67 mg/mL (43.85 mM; Need ultrasonic)
H₂O : 6.67 mg/mL (43.85 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.5738 mL	32.8688 mL	65.7376 mL
	5 mM	1.3148 mL	6.5738 mL	13.1475 mL
	10 mM	0.6574 mL	3.2869 mL	6.5738 mL

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

BIOLOGICAL ACTIVITY

Description

L-Asparagine-¹⁵N₂ (monohydrate) is the ¹⁵N-labeled L-Asparagine. L-Asparagine ((-)-Asparagine) is a non-essential amino acid that is involved in the metabolic control of cell functions in nerve and brain tissue.

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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