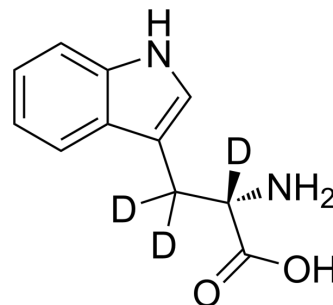


L-Tryptophan-d₃

Cat. No.:	HY-N0623S9		
CAS No.:	133519-78-5		
Molecular Formula:	C ₁₁ H ₉ D ₃ N ₂ O ₂		
Molecular Weight:	207.24		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 7.69 mg/mL (37.11 mM; Need ultrasonic)
 H₂O : 5 mg/mL (24.13 mM; ultrasonic and warming and heat to 60°C)
 H₂O : 5 mg/mL (24.13 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		4.8253 mL	24.1266 mL	48.2532 mL
	5 mM		0.9651 mL	4.8253 mL	9.6506 mL
	10 mM		0.4825 mL	2.4127 mL	4.8253 mL

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

BIOLOGICAL ACTIVITY

Description

L-Tryptophan-d₃ is the deuterium labeled L-Tryptophan. L-Tryptophan (Tryptophan) is an essential amino acid that is the precursor of serotonin, melatonin, and vitamin B3[1].

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]. Slominski A, et al. Conversion of L-tryptophan to serotonin and melatonin in human melanoma cells. FEBS Lett. 2002 Jan 30;511(1-3):102-6.

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

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