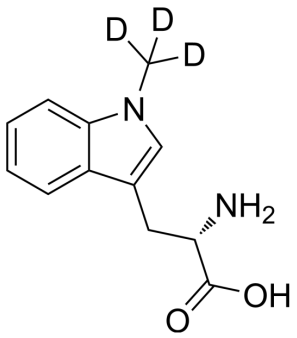
(S)-Indoximod-d_3

Cat. No.:	HY-N0707S
CAS No.:	1801851-87-5
Molecular Formula:	$C_{12}H_{11}D_3N_2O_2$
Molecular Weight:	221.27
Target:	Indoleamine 2,3-Dioxygenase (IDO)
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 : 4.81 mg/mL (21.74 mM; ultrasonic and warming and adjust pH to 4 with HCl and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	4.5194 mL	22.5968 mL	45.1937 mL
5 mM	0.9039 mL	4.5194 mL	9.0387 mL
10 mM	0.4519 mL	2.2597 mL	4.5194 mL

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

BIOLOGICAL ACTIVITY

Description

(S)-Indoximod-d_3 is the deuterium labeled (S)-Indoximod. (S)-Indoximod (1-Methyl-L-tryptophan) is an inhibitor of indoleamine 2,3-dioxygenase (IDO). (S)-Indoximod can be used for the research of cancer[1][2][3].

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.

[2]. Huang GL, et, al. PEG-Poly(1-Methyl-l-Tryptophan)-Based Polymeric Micelles as Enzymatically Activated Inhibitors of Indoleamine 2,3-Dioxygenase. Nanomaterials (Basel). 2019 May 9;9(5):719.

[3]. Liu X, et, al. 1-L-MT, an IDO inhibitor, prevented colitis-associated cancer by inducing CDC20 inhibition-mediated mitotic death of colon cancer cells. Int J Cancer. 2018 Sep 15;143(6):1516-1529.

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