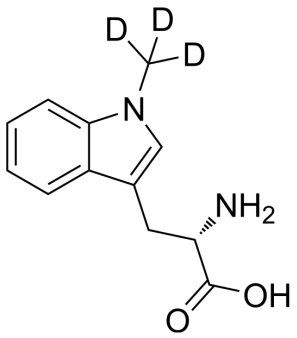
(S)-Indoximod-d_3

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



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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