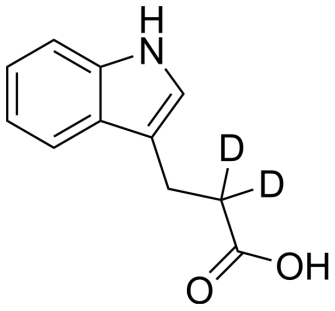
3-Indolepropionic acid-d_2

Cat. No.:	HY-W015229S
CAS No.:	2469257-98-3
Molecular Formula:	$C_{11}H_9D_2NO_2$
Molecular Weight:	191.22
Target:	Endogenous Metabolite; Reactive Oxygen Species; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB; Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	3-Indolepropionic acid-d_2 is the deuterium labeled 3-Indolepropionic acid. 3-Indolepropionic acid is shown to be a powerful antioxidant and has potential in the treatment for Alzheimer's disease.
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]. Wikoff WR, et al. Metabolomics analysis reveals large effects of gut microflora on mammalian blood metabolites. Proc Natl Acad Sci U S A. 2009 Mar 10;106(10):3698-703.

[3]. Reiter RJ, et al. Reactive oxygen intermediates, molecular damage, and aging. Relation to melatonin. Ann N Y Acad Sci. 1998 Nov 20;854:410-24.

[4]. de Mello VDet al. Indolepropionic acid and novel lipid metabolites are associated with a lower risk of type 2 diabetes in the Finnish Diabetes Prevention Study. Sci Rep. 2017 Apr 11;7:46337. doi: 10.1038/srep46337.

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