Indolelactic acid-d_5

Cat. No.: HY-113099S

CAS No.: 2470130-19-7

Molecular Formula: $C_{11}H_6D_5NO_3$

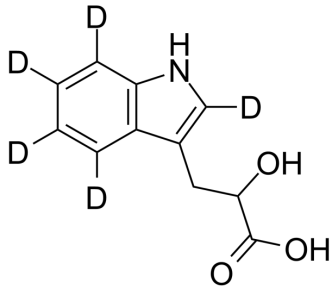
Molecular Weight: 210.24

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 : 100 mg/mL (475.65 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.7565 mL	23.7823 mL	47.5647 mL
	5 mM	0.9513 mL	4.7565 mL	9.5129 mL
	10 mM	0.4756 mL	2.3782 mL	4.7565 mL

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

BIOLOGICAL ACTIVITY

Description

Indolelactic acid-d_5 is the deuterium labeled Indolelactic acid. Indolelactic acid is a tryptophan (Trp) catabolite in Azotobacter vinelandii cultures.

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]. Francisco García-Tabares, et al. Production of 3-indoleacetic acid and 3-indolelactic acid in Azotobacter vinelandii cultures supplemented with tryptophan. Appl Microbiol Biotechnol.1987 Mar, 25 (6):502–506.

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

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