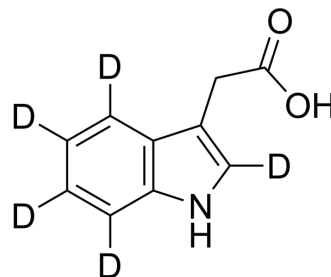


3-Indoleacetic acid-d₅

Cat. No.:	HY-18569S		
CAS No.:	76937-78-5		
Molecular Formula:	C ₁₀ H ₄ D ₅ NO ₂		
Molecular Weight:	180.21		
Target:	Endogenous Metabolite; Isotope-Labeled Compounds		
Pathway:	Metabolic Enzyme/Protease; Others		
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 (554.91 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.5491 mL	27.7454 mL	55.4908 mL
	5 mM	1.1098 mL	5.5491 mL	11.0982 mL
	10 mM	0.5549 mL	2.7745 mL	5.5491 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (13.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (13.87 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (13.87 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3-Indoleacetic acid-d₅ is the deuterium labeled 3-Indoleacetic acid. 3-Indoleacetic acid-d₅ can be used as internal standard for assay of IAA releases by alkaline hydrolysis of ester and amide conjugates[1].

CUSTOMER VALIDATION

-
- bioRxiv. 2023 Dec 22.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Magnus V, et, al. Synthesis of 4,5,6,7 and 2,4,5,6,7 Deuterium-labeled Indole-3-Acetic Acid for Use in Mass Spectrometric Assays. Plant Physiol. 1980 Oct; 66(4):775-81.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA