

Product Data Sheet

Product Name: Indole-3-butyric acid-d 2

Cat. No.: GC80498

Chemical Properties

Cas. No.

Formula $C_{12}H_{11}D_2NO_2$ M.Wt 205.25

Solubility DMSO: 100 mg/mL (487.21 mM; Storage Store at -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

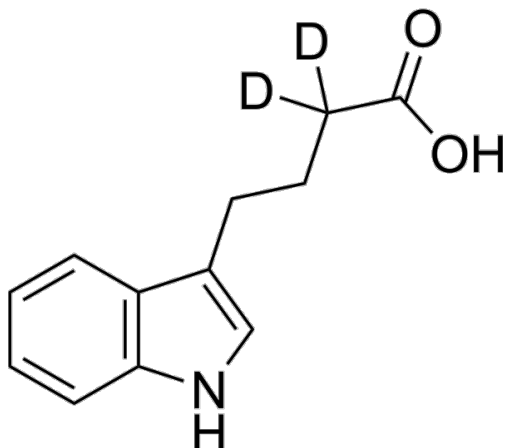
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Indole-3-butyric acid -d 2 (Indolebutyric acid-d 2) is the deuterium labeled Indole-3-butyric acid. Indole-3-butyric acid (3-indolebutyric acid) is a plant growth auxin and a good rooting agent. It can promote herbs and woody ornamental plant rooting and used for improving fruit rate. Indole 3-butyric acid is an auxin precursor, and is converted to indole 3-acetic acid (IAA) in a peroxisomal β -oxidation process [1].

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.

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References:

- [1]. Damodaran S, Strader LC. Indole 3-Butyric Acid Metabolism and Transport in Arabidopsis thaliana. Front Plant Sci. 2019 Jul 3;10:851.
- [2]. Fattorini L, et al. Indole-3-butyric acid promotes adventitious rooting in Arabidopsis thaliana thin cell layers by conversion into indole-3-acetic acid and stimulation of anthranilate synthase activity. BMC Plant Biol. 2017 Jul 11;17(1):121.
- [3]. Schlicht M, et al. Indole-3-butyric acid induces lateral root formation via peroxisome-derived indole-3-acetic acid and nitric oxide. New Phytol. 2013 Oct;200(2):473-482.

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