
Product Data Sheet

Product Name: (S)-Indoximod-d3

Cat. No.: GC69891

Chemical Properties

Cas. No. 1801851-87-5

Formula $C_{12}H_{11}D_3N_2O_2$ M.Wt 221.27

Solubility Storage Store at -20°C

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.

Structure **Background**

(S)-Indoximod-d₃ is the deuterium labeled (S)-Indoximod. (S)-Indoximod (1-Metl-L-tryptophan) is an inhibitor of indoleamine 2,3-dioxygenase (IDO). (S)-Indoximod can be used for the research of cancer[1][2][3].

Stable heavy isotopes of drogen, 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].

[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-Metl-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.

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

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