

Product Data Sheet

Product Name: Indican
Cat. No.: GC62062

Chemical Properties

Cas. No. 487-60-5

SMILES O[C@@H]1[C@H](O[C@H]([C@@H]([C@H]1O)O)OC2=CNC3=C2C=CC=C3)CO

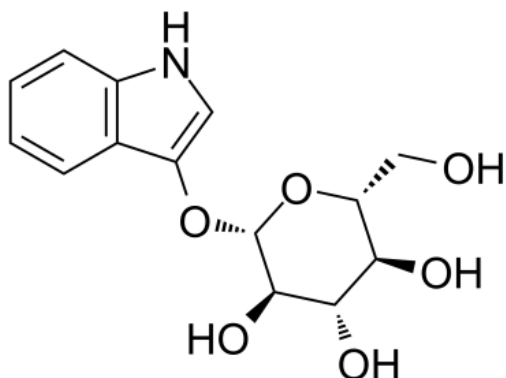
Formula $C_{14}H_{17}NO_6$ M.Wt 295.29

Solubility DMSO : 100 mg/mL (338.65 mM)|Methanol : 83.33 mg/mL (282.20 mM)
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

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

Product Data Sheet

Indican (Indoxyl- β -D-glucoside), a glycoside of indoxyl, is a precursor of the dyes indigo and indirubin. Indican has a major metabolite, indoxyl sulfate (IS). IS, an uremic toxin, is a substrate/inhibitor of organic anion transporter (OAT) 1, OAT 3 and multidrug resistance-associated protein (MRP) 4[1][2].

Indican ((Indoxyl- β -D-glucoside; oral; 20, 40 mg/kg; single dose) increases the systemic exposure and MRT of MTX through inhibition on multiple anion transporters including OAT 1, OAT 3 and MRP 4 by the major metabolite IS[1].

[1]. Shiuan-Pey Lin, et al. Transporter-mediated interaction of indican and methotrexate in rats. J Food Drug Anal. 2018 Apr;26(2S):S133-S140.

[2]. Yu-Chi Hou, et al. Indoxyl sulfate, a uremic toxin, is biotransformed from indoxyl-beta-D-glucoside (indican) in rats. Toxicon. 2008 Sep 1;52(3):440-4.

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