

Product Data Sheet

Product Name: 5-Hydroxytryptophol-O-glucuronide

Cat. No.: GC81776

Chemical Properties

Cas. No. 27939-38-4

Formula $C_{16}H_{19}NO_8$ M.Wt 353.32

Solubility DMSO: 100 mg/mL (283.03 mM; Need ultrasonic) Storage Store at 4°C, sealed storage, away from moisture

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

5-Hydroxytryptophol-O-glucuronide (UGT1A6) is an authentic glucuronide standard and probe

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

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metabolite. 5-Hydroxytryptophol-O-glucuronide is used to detect the activity of human UGT1A6 in in vitro systems including human liver microsomes and recombinant UGT1A6 [1].

In Vitro, 5-Hydroxytryptophol-O-glucuronide (0.025 mg/mL HLM protein; 20-10000 μ M 5HTOL; 20 min) formation via UGT1A6 in pooled human liver microsomes exhibits weak substrate inhibition kinetics with a mean K_m of 420 μ M without 2% BSA and 330 μ M with 2% BSA, and minimal changes in unbound intrinsic clearance with BSA addition^[1]. 5-Hydroxytryptophol-O-glucuronide (0.025 mg/mL rUGT1A6 protein; 20-10000 μ M 5HTOL; 90 min) formation via recombinant UGT1A6 exhibits weak substrate inhibition kinetics with a mean K_m of 570 μ M without 2% BSA and 490 μ M with 2% BSA, and a small increase in intrinsic clearance with BSA addition^[1].

References:

[1]. Walsky RL, et al. Optimized assays for human UDP-glucuronosyltransferase (UGT) activities: altered alamethicin concentration and utility to screen for UGT inhibitors. Drug Metab Dispos. 2012;40(5):1051-1065.

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