

Dapagliflozin-3-O-β-D-Glucuronide

Chemical Properties

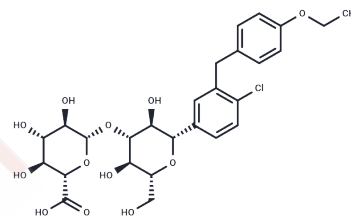
CAS No. : 1351438-75-9

Formula: C₂₇H₃₃ClO₁₂

Molecular Weight: 585

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Dapagliflozin-3-O-β-D-glucuronide is a metabolite of dapagliflozin . Dapagliflozin is a first generation selective sodium glucose cotransporter (SGLT) 2 inhibitor that blocks glucose transport.[1] Dapagliflozin is metabolized by uridine diphosphate glucuronosyltransferase (UGT) 1A9 to dapagliflozin-3-O-β-D-glucuronide, which is 2,600-fold less potent than the parent compound with regard to SGLT2 inhibition.[2]
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	H ₂ O: Soluble Methanol: Soluble DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7094 mL	8.547 mL	17.094 mL
5 mM	0.3419 mL	1.7094 mL	3.4188 mL
10 mM	0.1709 mL	0.8547 mL	1.7094 mL
50 mM	0.0342 mL	0.1709 mL	0.3419 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chao, E.C., and Henry, R.R. SGLT2 inhibition - A novel strategy for diabetes treatment. Nature Reviews Drug Discovery 9(7), 551-559 (2010).

van der Walt, J.-S., Hong, Y., Zhang, L., et al. A nonlinear mixed effects pharmacokinetic model for dapagliflozin and dapagliflozin 3-O-glucuronide in renal or hepatic impairment. CPT Pharmacometrics Syst. Pharmacol. 2(e42), 1-9 (2013)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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