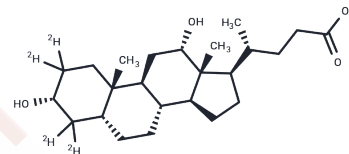


Deoxycholic acid-D4

Chemical Properties

CAS No. :	112076-61-6
Formula:	C ₂₄ H ₃₆ D ₄ O ₄
Molecular Weight:	396.6
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Deoxycholic acid-D4 is a deuterated compound of Deoxycholic Acid, suitable for isotope labelling. Deoxycholic Acid is a bile acid and TGR5 activator.
Targets(IC50)	Endogenous Metabolite, GPCR19

Solubility Information

Solubility	DMSO: 80 mg/mL (201.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5214 mL	12.6072 mL	25.2143 mL
5 mM	0.5043 mL	2.5214 mL	5.0429 mL
10 mM	0.2521 mL	1.2607 mL	2.5214 mL
50 mM	0.0504 mL	0.2521 mL	0.5043 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

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

Somm E, et al. β -Klotho deficiency protects against obesity through a crosstalk between liver, microbiota, and brown adipose tissue. *JCI Insight.* 2017 Apr 20;2(8). pii: 91809.

Wang X, et al. Acidified bile acids enhance tumor progression and telomerase activity of gastric cancer in mice dependent on c-Myc expression. *Cancer Med.* 2017 Apr;6(4):788-797.

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