

Cholic acid-D4

Chemical Properties

CAS No. : 116380-66-6

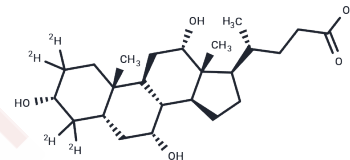
Formula: C₂₄H₃₆D₄O₅

Molecular Weight: 412.6

Store at low temperature

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	Cholic acid-D4 is a deuterated compound of cholic acid, suitable for isotope tracing. Cholic acid (T2963) is the primary bile acid produced by the liver and is used in metabolic studies.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 40 mg/mL (96.95 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	2.4237 mL	12.1183 mL	24.2365 mL
5 mM	0.4847 mL	2.4237 mL	4.8473 mL
10 mM	0.2424 mL	1.2118 mL	2.4237 mL
50 mM	0.0485 mL	0.2424 mL	0.4847 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.

Li Y, et al. Mechanism of hepatic targeting via oral administration of DSPE-PEG-Cholic acid-modified nanoliposomes. *Int J Nanomedicine.* 2017 Feb 28;12:1673-1684.

Pan X, et al. Cholic acid Feeding Leads to Increased CYP2D6 Expression in CYP2D6-Humanized Mice. *Drug Metab Dispos.* 2017 Apr;45(4):346-352.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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