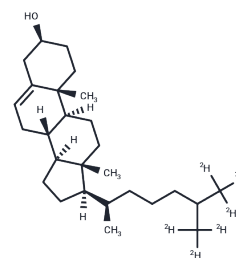


Cholesterol-D6

Chemical Properties

CAS No. :	60816-17-3
Formula:	C ₂₇ H ₄₀ D ₆ O
Molecular Weight:	392.69
Storage:	Store at low temperature
	Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cholesterol-D6 is a deuterated cholesterol that can be used to study lipid membrane flow and cholesterol metabolism in vivo.
Targets(IC50)	Estrogen Receptor/ERR,Others,Endogenous Metabolite
In vitro	In some cases, deuterated compounds may have advantages over nondeuterated forms, often by altering interstitial properties. Deuteration may also redirect metabolic pathways in a direction that reduces toxicity.[1]

Solubility Information

Solubility	Ethanol: 15 mg/mL (38.2 mM),Sonication is recommended. DMSO: 1 mg/mL (2.55 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5465 mL	12.7327 mL	25.4654 mL
5 mM	0.5093 mL	2.5465 mL	5.0931 mL
10 mM	0.2547 mL	1.2733 mL	2.5465 mL
50 mM	0.0509 mL	0.2547 mL	0.5093 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 Feb;53(2):211-216

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Dietschy JM, et al. Thematic review series: brain Lipids. Cholesterol metabolism in the central nervous system during early development and in the mature animal. *J Lipid Res.* 2004 Aug;45(8):1375-97.

Fukui K, et al. Effect of cholesterol reduction on receptor signaling in neurons. *J Biol Chem.* 2015 Oct 30;290(44):26383-92. doi: 10.1074/jbc.M115.664367. Epub 2015 Sep 14. Erratum in: *J Biol Chem.* 2016 Jul 22;291(30):15910.

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