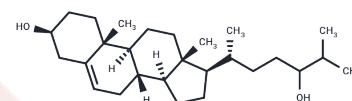


## 24-Hydroxycholesterol

## Chemical Properties

CAS No. :	30271-38-6
Formula:	C <sub>27</sub> H <sub>46</sub> O <sub>2</sub>
Molecular Weight:	402.65
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	24-Hydroxycholesterol (Cholest-5-ene-3beta,24-diol) is an oxysterol compound that is an activator of the n-methyl-d-aspartate receptor (NMDA) and the transcription factor LXR, which has been used in the study of cardiogenesis and pancreatic cancer.
Targets(IC50)	NMDAR,iGluR,Liver X Receptor
In vitro	During the angiogenic switch in rat insulin promoter 1-T-antigen 2 (RIP1-Tag2) pNET formation, the oxysterol-generating enzyme Cyp46a1 overexpressed 24-Hydroxycholesterol[1].
In vivo	In mouse in vivo experiments,24S-HC(24-Hydroxycholesterol) plays a major role in the local recruitment of neutrophils during angiogenesis. Immunofluorescence analysis reveals neutrophils proximal to cells producing 24S-HC(24-Hydroxycholesterol), namely Cyp46a1 cells [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4835 mL	12.4177 mL	24.8355 mL
5 mM	0.4967 mL	2.4835 mL	4.9671 mL
10 mM	0.2484 mL	1.2418 mL	2.4835 mL
50 mM	0.0497 mL	0.2484 mL	0.4967 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

- Soncini M, et al. 24-Hydroxycholesterol participates in pancreatic neuroendocrine tumor development. Proc Natl Acad Sci U S A. 2016 Oct 11;113(41):E6219-E6227. Epub 2016 Sep 26.
- Mast N, et al. Cholesterol-metabolizing enzyme cytochrome P450 46A1 as a pharmacologic target for Alzheimer's disease. Neuropharmacology. 2017 Sep 1;123:465-476.

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