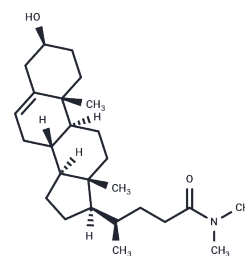


DMHCA

Chemical Properties

CAS No. :	79066-03-8
Formula:	C ₂₆ H ₄₃ NO ₂
Molecular Weight:	401.63
Storage:	Store at low temperature
	Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DMHCA is a selective LXR agonist with anti-inflammatory activity, which induces ABCA1 expression and upregulates FASN and SREBP-1alpha gene expression.
Targets(IC50)	Liver X Receptor
In vitro	Treatment of diabetic CD34+ cells with 10 μM DMHCA restored cell membrane fluidity to non-diabetic baseline levels. DMHCA restored bone marrow-derived TNF-α and IL-3 levels to baseline and significantly reduced CCL-2 production in bone marrow supernatant and systemic circulation. In addition, DMHCA increased the number of circulating vascular progenitor cells (CACs) in the bone marrow and peripheral circulation and facilitated the migration of vascular repair cells into the peripheral circulation. [1]
In vivo	DMHCA was able to restore cholesterol homeostasis in the diabetic retina by oral administration of 8 mg/kg/day for 6 months. In diabetic retina, DMHCA significantly increased the levels of endogenous LXR ligand, norethisterol and total oxidized sterols. [1]

Solubility Information

Solubility	DMSO: 5 mg/mL (12.45 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	2.4899 mL	12.4493 mL	24.8985 mL
5 mM	0.498 mL	2.4899 mL	4.9797 mL
10 mM	0.249 mL	1.2449 mL	2.4899 mL
50 mM	0.0498 mL	0.249 mL	0.498 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

Cristiano P Vieira, et al. Selective LXR agonist DMHCA corrects retinal and bone marrow dysfunction in type 2 diabetes. JCI Insight. 2020 Jul 9;5(13):e137230.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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