



## 24(S)-Hydroxycholesterol

## Data Sheet

<b>Catalog Number:</b>	MC11034	<b>Product Type:</b>	Small Molecule
<b>Bio-Activity:</b>	LXR agonist, endogenous cholesterol metabolite	<b>CAS #:</b>	474-73-7
<b>Research Categories:</b>	Neuroscience, cell death, stem cells, neurodegeneration	<b>Chemical Name:</b>	Cholest-5-ene-3 $\beta$ ,24S-diol
<b>Solubility:</b>	Soluble in DMSO (up to 10 mg/ml with warming) or in Ethanol (up to 10 mg/ml).	<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>46</sub> O <sub>2</sub>
<b>Purity:</b>	> 98%	<b>Molecular Weight:</b>	402.7
<b>Format:</b>	Powder	<b>Ship Temp:</b>	Ambient
<b>Storage:</b>	-20°C		

## Application Notes

**Description/Data:**

Metabolite of cholesterol produced in the brain by the action of CYP46A1 thereby regulating brain cholesterol homeostasis [1]. Endogenous agonist for the nuclear receptor LXR [2]. Cerebrospinal fluid content of 24(S)-hydroxycholesterol is reduced in Alzheimer's disease patients [3]. Induces RIPK1-dependent necrosis-like cell death in the absence of caspase-8 [4].

## References:

- 1) F Djelti et al. Brain 2015 138(Pt 8):2383
- 2) A Chawla et al. Science 2001 294:1866
- 3) MA Burlot et al. Hum. Mol. Genet. 2015 24:5965
- 4) DK Vo et al. Steroids 2015 99:230

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