



24(S)-Hydroxycholesterol

Data Sheet

Catalog Number:	MC11034	Product Type:	Small Molecule
Bio-Activity:	LXR agonist, endogenous cholesterol metabolite	CAS #:	474-73-7
Research Categories:	Neuroscience, cell death, stem cells, neurodegeneration	Chemical Name:	Cholest-5-ene-3 β ,24S-diol
Solubility:	Soluble in DMSO (up to 10 mg/ml with warming) or in Ethanol (up to 10 mg/ml).	Molecular Formula:	C27H46O2
Purity:	> 98%	Molecular Weight:	402.7
Format:	Powder	Ship Temp:	Ambient
Storage:	-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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