NEUROMICS

24,25-Epoxycholesterol   Data Sheet

Catalog Number:	MC11035	**Product Type:**	Small Molecule
Bio-Activity:	LXR agonist, endogenous cholesterol metabolite	**CAS #:**	77058-74-3
Research Categories:	Neuroscience, stem cells, neurodegeneration		
Solubility:	Soluble in DMSO (up to 30 mg/ml).	**Molecular Formula:**	C27H44O2
Purity:	> 98%	**Molecular Weight:**	400.65
Format:	Powder	**Ship Temp:**	Ambient
Storage:	-20°C		

Application Notes

Description/Data:
Cholesterol metabolite. Endogenous agonist for nuclear receptor LXR [1]. Controls cellular cholesterol homeostasis [2]. Promotes neural development in zebra fish as well as dopaminergic differentiation of embryonic stem cells [3]. Cell permeable.

References:

1) Chawla et al. (2001), Nuclear receptors and lipid physiology: opening the X-files; Science, 294 1866

2) Brown et al. (2009), 24(S),25-epoxycholesterol: a messenger for cholesterol homeostasis; Int. J. Biochem. Cell Biol., 41 744

3) Theofilopoulos et al. (2013), Brain endogenous liver X receptor igands selectively promote midbrain neurogenesis; Nature Chem. Biol., 9 126

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