



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 ligands selectively promote midbrain neurogenesis; *Nature Chem. Biol.*, 9 126

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