PRODUCT: 24(S)-Hydroxycholesterol


CATALOG #: 2411-1

AMOUNT: 1 mg

STRUCTURE: 

MOLECULAR FORMULA: C_{27}H_{46}O_2

MOLECULAR WEIGHT: 402.66

CAS NUMBER: 474-73-7

APPEARANCE: White solid

SOLUBILITY: DMSO (~10 mg/ml) or EtOH (~10 mg/ml)

PURITY: ≥99% by HPLC

STORAGE: At -20 °C. Protect from light and air

DESCRIPTION: An important cholesterol metabolite (cholesterol 24-hydroxylase) found in the brain. It is an endogenous agonist of the nuclear receptor LXR. It has been shown to induce cell death in neuroblastoma cells, possibly via a necroptosis pathway. 24(S)-Hydroxycholesterol has also been found to be a high affinity ligand for RORα and RORγ (K_i = 25 nM). 24(S)-Hydroxycholesterol levels are elevated in the cerebral spinal fluids of patients with neurogenerative diseases suggesting possible clinical applications. It was also able to reduce Aβ production and increase ERβ resident immature amyloid precursor protein (APP) levels in human neuroblastoma SH-Sy5Y cells and CHO cells via inhibition of intracellular amyloid precursor protein trafficking.


HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:
- SR1001 (Cat. No. 1902-5, 25)
- Nes-1s (Cat. No. 2263-1, 5)
- Necrosis inhibitor, Necrox-2 (Cat. No.2228-1, 5)
- Necrosis inhibitor, Necrox-5 (Cat. No.2229-1, 5)
- Necrostatin-1 (Cat. No. 1864-5, 25)
- Necrostatin-5 (Cat. No. 1865-5, 25)
- Necrostatin-7 (Cat. No. 1866-5, 25)

USAGE: FOR RESEARCH CH USE ONLY! Not to be used in humans