

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

Product Datasheet

24(S)-Hydroxycholesterol, CAS [[474-73-7]]

FBM-10-1331

Article Name	24(S)-Hydroxycholesterol, CAS [[474-73-7]]
Biozol Catalog Number	FBM-10-1331
Supplier Catalog Number	10-1331
Alternative Catalog Number	FBM-10-1331-1MG, FBM-10-1331-5MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Endogenous cholesterol metabolite...
Molecular Weight	402.66
Purity	99% by HPLC, NMR (Conforms)
Form	White solid
CAS Number	[474-73-7]
Formula	C ₂₇ H ₄₆ O ₂

Application Notes

24(S)-Hydroxycholesterol is an important cholesterol metabolite (cholesterol 24-hydroxylase) found in the brain.¹ It is an endogenous agonist of the nuclear receptor LXR.² It has been shown to induce cell death in neuroblastoma cells³, possibly via a necroptosis pathway⁴. 24(S)-Hydroxycholesterol has also been found to be a high affinity ligand for RORalpha and RORgamma ($K_i = 25$ nM).⁵ 24(S)-Hydroxycholesterol levels are elevated in the cerebral spinal fluids of patients with neurodegenerative diseases suggesting possible clinical applications.^{6,7} It was also able to reduce Abeta production and increase ER-resident immature amyloid precursor protein (APP) levels in human neuroblastoma SH-Sy5Y cells and CHO cells via inhibition of intracellular amyloid precursor protein trafficking.⁷