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## 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 <sub>27</sub> H <sub>46</sub> O <sub>2</sub>

Application Notes

24(S)-Hydroxycholesterol is an important cholesterol metabolite (cholesterol 24-hydroxylase) found in the brain.<sup>1</sup> It is an endogenous agonist of the nuclear receptor LXR.<sup>2</sup> It has been shown to induce cell death in neuroblastoma cells<sup>3</sup>, possibly via a necroptosis pathway<sup>4</sup>. 24(S)-Hydroxycholesterol has also been found to be a high affinity ligand for RORalpha and RORgamma ( $K_i = 25$  nM).<sup>5</sup> 24(S)-Hydroxycholesterol levels are elevated in the cerebral spinal fluids of patients with neurodegenerative diseases suggesting possible clinical applications.<sup>6,7</sup> It was also able to reduce A $\beta$  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.<sup>7</sup>