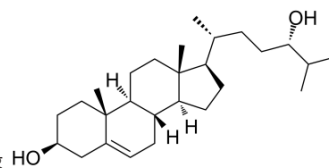


24(S)-Hydroxycholesterol

Cat. No.:	HY-16940
CAS No.:	474-73-7
Molecular Formula:	C ₂₈ H ₄₈ O
Molecular Weight:	400.68
Target:	LXR; iGluR; Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	24(S)-Hydroxycholesterol (24S-OHC), the major brain cholesterol metabolite, plays an important role to maintain homeostasis of cholesterol in the brain. 24(S)-Hydroxycholesterol (24S-OHC) is one of the most efficient endogenous LXR agonist known and is present in the brain and in the circulation at relatively high levels. 24(S)-Hydroxycholesterol (24S-OHC) is a very potent, direct, and selective positive allosteric modulator of NMDARs with a mechanism that does not overlap that of other allosteric modulators ^{[1][2][3]} .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

- [1]. Yuki Kimura, et al. Tocopherol suppresses 24(S)-hydroxycholesterol-induced cell death via inhibition of CaMKII phosphorylation. *Biochimie*. 2018 Oct;153:203-209.
- [2]. M Shafaati, et al. Enhanced production of 24S-hydroxycholesterol is not sufficient to drive liver X receptor target genes in vivo. *J Intern Med*. 2011 Oct;270(4):377-87.
- [3]. Steven M Paul, et al. The major brain cholesterol metabolite 24(S)-hydroxycholesterol is a potent allosteric modulator of N-methyl-D-aspartate receptors. *J Neurosci*. 2013 Oct 30;33(44):17290-300.

Caution: Product has not been fully validated for medical applications. For research use only.

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