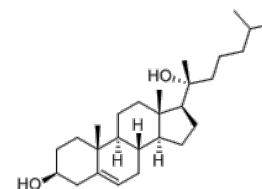


Product Name : 20(S)-Hydroxycholesterol
Cat. No. : PC-62201
CAS No. : 516-72-3
Molecular Formula : C₂₇H₄₆O₂
Molecular Weight : 402.65
Target : Smoothened (Smo)
Solubility : 10 mM in DMSO



Biological Activity

20(S)-Hydroxycholesterol (20(S)-OHC) is an allosteric activator of the **Hedgehog** signaling pathway Smoothened (Smo) oncoprotein, binds at a site distinct from the canonical cyclopamine binding site.

20(S)-OHC activates Hedgehog (Hh) signaling (EC₅₀ =3 uM for induction of Hh reporter gene transcription in NIH 3T3 cells).

20(S)-OHC induces Smo accumulation in primary cilia.

References

Nedelcu D, et al. Nat Chem Biol. 2013 Sep;9(9):557-64.

Nachtergaele S, et al. Nat Chem Biol. 2012 Jan 8;8(2):211-20.

Dwyer JR, et al. J Biol Chem. 2007 Mar 23;282(12):8959-68.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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