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DATASHEET

(25S)-delta7-Dafachronic acid

Product overview

Name	(25S)-delta7-Dafachronic acid
Cat No	HB3693
Purity	>95%
Description	Orphan nuclear receptor DAF-12 ligand

Biological Data

Biological description	Ligand of DAF-12, an orphan nuclear receptor, that regulates dauer diapause, reproductive development, fat metabolism, and life span (life cycle) in parasitic nematodes. Sterol-derived hormone. Blocks formation of infective larvae in several parasitic nematodes. Inhibits the dauer-promoting activity of DAF-12. Supports the reproductive development.
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Solubility & Handling

Storage instructions	+4 °C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(5 α ,25S)-3-oxo-cholest-7-en-26-oic acid
Molecular Weight	414.6
Chemical structure	
Molecular Formula	C ₂₇ H ₄₂ O ₃
CAS Number	949004-12-0
PubChem identifier	23583984
SMILES	<chem>C[C@H](CCC[C@H](C)C(=O)O)[C@H]1CC[C@@H]2[C@@]1(CC[C@H]3C2=CC[C@@H]4[C@@]3(CCC(=O)C4)C)C</chem>
InChi	InChI=1S/C27H42O3/c1-17(6-5-7-18(2)25(29)30)22-10-11-23-21-9-8-19-16-20(28)12-14-26(19,3)24(21)13-15-27(22,23)4/h9,17-19,22-24H,5-8,10-16H2,1-4H3,(H,29,30)/t17-,18+,19+,22-,23+,24+,26+,27-/m1/s1
InChiKey	SQTAVUCHOVVOFD-AAVWLPFVSA-N
Appearance	White to off-white solid