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## DATASHEET

### (25S)-delta7-Dafachronic acid

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#### Product overview

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

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#### Biological Data

<b>Biological description</b>	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

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

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#### Chemical Data

<b>Chemical name</b>	(5 $\alpha$ ,25S)-3-oxo-cholest-7-en-26-oic acid
<b>Molecular Weight</b>	414.6
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>27</sub> H <sub>42</sub> O <sub>3</sub>
<b>CAS Number</b>	949004-12-0
<b>PubChem identifier</b>	23583984
<b>SMILES</b>	<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>
<b>InChi</b>	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
<b>InChiKey</b>	SQTAVUCHOVVDFD-AAVWLPFVSA-N
<b>Appearance</b>	White to off-white solid

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