Print Date: Jun 29th 2017

Certificate of Analysis

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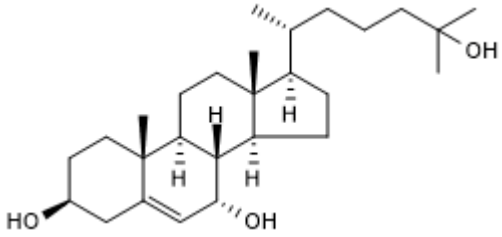
Product Name: **7a,25-Dihydroxycholesterol** **Catalog No.: 6277** **Batch No.: 1**

CAS Number: 64907-22-8

IUPAC Name: (3β,7α)-Cholest-5-ene-3,7,25-triol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{27}H_{46}O_3$
Batch Molecular Weight:	418.65
Physical Appearance:	White solid
Solubility:	DMSO to 10 mM with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	

2. ANALYTICAL DATA

HPLC:	Shows 99.5% purity
^{1}H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

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Product Information

Product Name: **7a,25-Dihydroxycholesterol** **Catalog No.: 6277** **Batch No.: 1**

CAS Number: 64907-22-8

IUPAC Name: (3β,7α)-Cholest-5-ene-3,7,25-triol

Description:

Highly potent GPR183 (EBI2) agonist (EC_{50} = 140 pM) and putative natural ligand for GPR183. Regulates migration of B and T cells expressing GPR183 in vivo. Desensitizes B cells and reduces their movement to splenic follicles.

Physical and Chemical Properties:

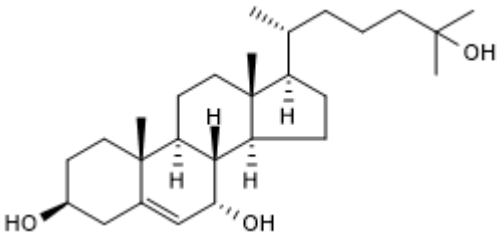
Batch Molecular Formula: $C_{27}H_{46}O_3$

Batch Molecular Weight: 418.65

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Hannedouche *et al* (2011) Oxysterols direct immune cell migration via EBI2. Nature. ***475*** 524. PMID: 21796212.

Liu *et al* (2011) Oxysterols direct B-cell migration through EBI2. Nature. ***475*** 519. PMID: 21796211.

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