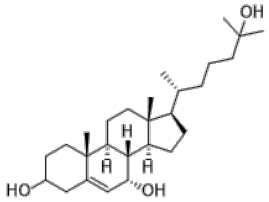
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	7α,25-Dihydroxycholesterol
Cat. No.	:	PC-28741
CAS No.	:	64907-22-8
Molecular Formula	:	$C_{27}H_{46}O_3$
Molecular Weight	:	418.66
Target	:	GPR183 (EBI2)
Solubility	:	10 mM in DMSO



Biological Activity

7α,25-dihydroxycholesterol (7α,25-OHC, 7alpha,25-dihydroxycholesterol) is a potent and selective agonist and endogenous ligand of the orphan GPCR receptor **EBI2** (**GPR183**) with EC50 of 140 pM and Kd of 450 pM, directs immune cell migration.
7α,25-dihydroxycholesterol (7α,25-OHC) act as chemoattractants for immune cells expressing EBI2 by directing cell migration in vitro and in vivo.
7α,25-dihydroxycholesterol (7α,25-OHC) mediates positioning of activated CD4 T cells at the interface of the follicle and T zone.
7α,25-dihydroxycholesterol (7α,25-OHC) induces memory CD4+ T lymphocytes migrate specifically in the MS murine model experimental autoimmune encephalomyelitis.

References

Li J, et al. ***Nature.*** 2016 May 5;533(7601):110-4.

Yi T, et al. ***Immunity.*** 2012 Sep 21;37(3):535-48.

Liu C, et al. ***Nature***. 2011 Jul 27;475(7357):519-23.

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

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