Proteins

Product Data Sheet



7α,25-Dihydroxycholesterol

Cat. No.: HY-113962 CAS No.: 64907-22-8 Molecular Formula: $C_{27}^{}H_{46}^{}O_{3}^{}$ Molecular Weight: 418.65

Target: EBI2/GPR183; Endogenous Metabolite Pathway: GPCR/G Protein; Metabolic Enzyme/Protease

Storage: Powder -20°C 3 years

In solvent -80°C 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 4.55 mg/mL (10.87 mM; Need ultrasonic) Ethanol: 1 mg/mL (2.39 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.3886 mL	11.9432 mL	23.8863 mL
	5 mM	0.4777 mL	2.3886 mL	4.7773 mL
	10 mM	0.2389 mL	1.1943 mL	2.3886 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	7α , 25-dihydroxycholesterol (7α ,25-OHC) is a potent and selective agonist and endogenous ligand of the orphan GPCR receptor EBI2 (GPR183). 7α , 25-dihydroxycholesterol is highly potent at activating EBI2 (EC ₅₀ =140 pM; K _d =450 pM). 7α , 25-dihydroxycholesterol can serve as a chemokine directing migration of B cells, T cells and dendritic cells ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	MMMM7α,25-Dihydroxycholesterol (7α,25-OHC) MMMM EBI2 MMM B MMM T MMMMMMMMMMMMMMMMMMMMMMMMMM
In Vivo	7α ,25-Dihydroxycholesterol (1 μ M \boxtimes 1.5 \boxtimes \boxtimes) \boxtimes \boxtimes \boxtimes EBI2 \boxtimes

REFERENCES

[1]. Liu C, et al. Oxysterols direct B-cell migration through EBI2. Nature. 2011 Jul 27;475(7357):519-23. [2]. Hannedouche S, et al. Oxysterols direct immune cell migration via EBI2. Nature. 2011 Jul 27;475(7357):524-7.						
	Caution: Product has r	not been fully validated for m	edical applications. For research use only	<i>1</i> .		
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