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DATASHEET

OCH

Product overview

Name	OCH
Cat No	HB4004
Purity	>95%
Description	iNKT cell glycolipid agonist

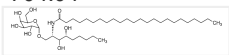
Biological Data

Biological description	Truncated analog of alpha-GalCer. iNKT cell glycolipid agonist. Immunosuppressive. Th2 polarizing. Stimulation of NKT with OCH results in release of primarily Th2 cytokine compared to stimulation with alpha-GalCer, which results in release of a mixture of Th1 and Th2 cytokines. Induces stronger interleukin-4 (IL-4) secretion and weaker interferon-gamma (IFN-gamma) secretion than alpha-GalCer both in vitro and in vivo. Inducer of interleukin-10 (IL-10) and suppressor of diabetes. Shown to prevent experimental autoimmune encephalomyelitis (EAE) in mice, an animal model of multiple sclerosis. Has beneficial effects on type I diabetes in NOD mice. Suppressor of collagen-induced arthritis. Might be useful for immunotherapy of transplant rejection.
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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	(2S,3S,4R)-1-O-(alpha-D-Galactopyranosyl)-N-tetracosanoyl-2-amino-1,3,4-nonanetriol
Molecular Weight	704.04
Chemical structure	
Molecular Formula	C ₃₉ H ₇₇ NO ₉
CAS Number	383187-82-4
PubChem identifier	0
SMILES	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC(=O)N[C@@H](CO[C@H]1O[C@H](CO)[C@H](O)[C@H](O)[C@H]1O)[C@H](O)[C@H](O)[C@H](O)CCCCC
InChiKey	MPKIDHIOYNMFES-CLTBVUQJSA-N
Appearance	White to off-white solid