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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.

Solubility & Handling

Storage instructions Storage of solutions +4°C

Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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

PubChem identifier

SMILES CCCCCCCCCCCCCCCCCCCCCC(=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)CCCCC
MPKIDHIOYNMFES-CLTBVUQJSA-N

InChiKey MPKIDHIOYNMFES-C Appearance White to off-white solid