Myriocin (ISP-I) ab143526

Overview

Product name: Myriocin (ISP-I)

Description: Highly potent serine palmitoyltransferase inhibitor

Biological description: Highly potent serine palmitoyltransferase inhibitor ($K_i = 0.28$ nM). Shows 10 times the immunosuppressant potency of cyclosporine (ab141923, ab143599). Depletes cellular sphingolipids and induces apoptosis. Inhibits proliferation (IC$_{50}$ = 15 nM, CTLL-1). Inhibits sphingosine biosynthesis in vivo. Orally active.

Purity: > 98%

Properties

Chemical name: (E,2S,3R,4R)-2-Amino-3,4-dihydroxy-2-(hydroxymethyl)-14-oxoicos-6-enoic acid

Molecular weight: 401.54

Chemical structure:

![Chemical structure of Myriocin (ISP-I)](image)

Molecular formula: $C_{21}H_{39}NO_6$

CAS Number: 35891-70-4

PubChem identifier: 6438394

Storage instructions: Store at +4°C. The product can be stored for up to 12 months.

Solubility overview: Soluble in DMSO to 50 mM (with heating). Soluble in NaOH to 10 mM

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Toxic, refer to SDS for further information.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES: CCCCCC(C(=O)CCCCCCCC=CCCC(C(C(C(CO)(C(=O)O)N)O)O

Source: Synthetic
Please note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS”

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