

Catalog # 10-2088

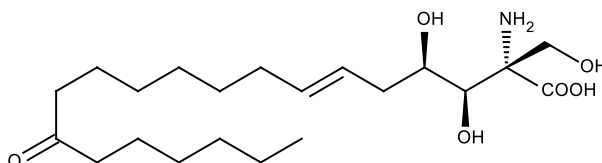
Myriocin

CAS# 35891-70-4

(2S,3R,4R,6E)-2-Amino-3,4-dihydroxy-2-(hydroxymethyl)-14-oxo-6-eicosenoic acid

ISP-1

Lot # X102149



Myriocin is a fungal metabolite with potent immunosuppressant activity.¹ It inhibits serine palmitoyltransferase ($K_i = 0.28 \text{ nM}$) blocking the synthesis of ceramide.² It was found to suppress melanoma cell proliferation by cell cycle arrest at the G 2/M phase through decreased sphingolipid levels and increased p53 and p21 (waf1/cip1) expression.³

- 1) Fujita *et al.* (1994) *Fungal metabolites. Part 11. A potent immunosuppressive activity found in Isaria sinclairii metabolite* J. Antibiot. **47** 208
- 2) Miyake, *et al.*, (1995) *Serine palmitoyltransferase is the primary target of a sphingosine-like immunosuppressant ISP-1/myriocin*. Biochem. Biophys. Res. Commun. **211** 396
- 3) Lee *et al.* (2012) *Myriocin, a serine palmitoyltransferase inhibitor, suppresses tumor growth in a murine melanoma model by inhibiting de novo sphingolipid synthesis* Cancer Biol Ther. **13** 92

PHYSICAL DATA

Molecular Weight:	401.54
Molecular Formula:	$\text{C}_{21}\text{H}_{39}\text{NO}_6$
Purity:	>98%
Solubility:	DMSO (20 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions at -20°C for up to 4 months.

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