



Product Information

Product ID M9634

CAS No. 35891-70-4

Chemical Name

Synonym

Formula C₂₁H₃₉NO₆

Formula Wt. 401.54

Melting Point 175-180C

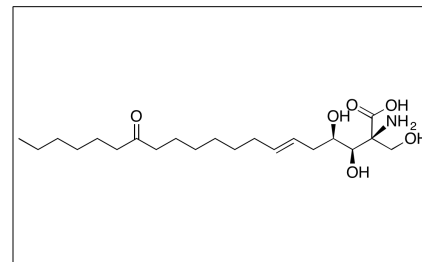
Purity ≥99%, TLC

Solubility DMSO (25 mg/ml; heat briefly in boiling water bath); soluble in dilute base (50 mM NaOH) to ~5 mg/ml and methanol: 2

Store Temp 4°C

Ship Temp Ambient

Description Myriocin is derived from ascomycete *Isaria sinclairii*. Myriocin is the parent compound of fingolimod, an immunosuppressive sphingosine-1 receptor inhibitor. Myriocin exhibits both immunosuppressive and anticancer activities. This compound inhibits serine palmitoyltransferase, preventing sphingolipid formation. In vitro, myriocin decreases expression of cyclin B1, cdc2, and cdc25C and increase expression of p53 and p21, inducing G2/M phase cell cycle arrest and inhibiting growth of melanoma cells. In animal models, myriocin decreases levels of CD4+ lymphocytes and alters the total lymphocyte populations.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M9634	1 mg	\$37.30
M9634	5 mg	\$124.00
M9634	10 mg	\$206.60

References Wadsworth JM, Clarke DJ, McMahon SA, et al. The chemical basis of serine palmitoyltransferase inhibition by myriocin. J Am Chem Soc. 2013 Sep 25;135(38):14276-85. PMID: 23957439.

Lee YS, Choi KM, Choi MH, et al. Serine palmitoyltransferase inhibitor myriocin induces growth inhibition of B16F10 melanoma cells through G(2) /M phase arrest. Cell Prolif. 2011 Aug;44(4):320-9. PMID: 21645154.

Chiba K, Matsuyuki H, Maeda Y, et al. Role of sphingosine 1-phosphate receptor type 1 in lymphocyte egress from secondary lymphoid tissues and thymus. Cell Mol Immunol. 2006 Feb;3(1):11-9. PMID: 16549044.

Johnson VJ, He Q, Osuchowski MF, et al. Disruption of sphingolipid homeostasis by myriocin, a mycotoxin, reduces thymic and splenic T-lymphocyte populations. Toxicology. 2004 Sep 1;201(1-3):67-75. PMID: 15297021.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.