

Product Name:	Myriocin
Product Number:	M045
CAS Number:	35891-70-4
Molecular Formula:	C ₂₁ H ₃₉ NO ₆
Molecular Weight:	401.5
Appearance:	Off-white to grey powder
Storage Conditions:	-20°C
Description:	<p>Myriocin is an α-amino fatty acid derived from several genera of fungi, notably Myriococcum, Melanconis and Isaria.</p> <p>Myriocin is soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</p>
Mechanism of Action:	<p>Myriocin potently inhibits sphingosine biosynthesis by blocking the first enzyme in the pathway, serine palmitoyltransferase. Myriocin induces apoptosis by depleting cellular sphingolipids, inhibits proliferation of IL-2-dependent mouse cytotoxic cells and is a potent immunosuppressant.</p>
References:	<p>Myriocin, a new antifungal antibiotic from Myriococcum albomyces. Kluepfel D. J. Antibiot. 1972, 25, 109.</p> <p>Serine palmitoyltransferase is the primary target of a sphingosine-like immunosuppressant, ISP-1/myriocin. Miyake Y. et al. , Biochem. Biophys. Res. Commun. 1995, 211, 396.</p> <p>Fungal metabolites. Part 12. Potent immunosuppressant, 14-deoxomyriocin, (2S,3R,4R)-(E)-2-amino-3,4-dihydroxy-2-hydroxymethyleicos-6-enoic acid and structure-activity relationships of myriocin derivatives. Fujita T. et al. , J. Biol. Chem. 2005, 280, 10284.</p>