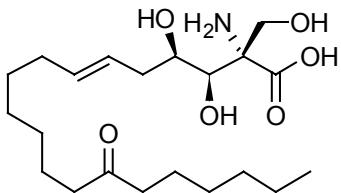


Myriocin

Code: **BIA-M1219**

Pack sizes: **2.5 mg, 10 mg**



Synonyms : **Thermozymocidin, ISP 1**

Specifications

CAS #	: 35891-70-4
Molecular Formula	: C₂₁H₃₉NO₆
Molecular Weight	: 401.5
Source	: <i>Mycelia sterilia</i> (fungus)
Appearance	: Off-white to grey powder
Purity	: > 97%
Long Term Storage	: - 20°C
Solubility	: Slightly soluble in DMSO, alcohols.

Application Notes

Myriocin is an α -amino fatty acid derived from species of several genera of fungi, notably *Myriococcum*, *Melanconis* and *Isaria*. Myriocin is a potent inhibitor of sphingosine biosynthesis by blocking the first enzyme in the pathway, serine palmitoyltransferase. Myriocin induces apoptosis by depletion of cellular sphingolipids, inhibits proliferation of IL-2-dependent mouse cytotoxic cells and is a potent immunosuppressant.

References

1. Myriocin, a new antifungal antibiotic from *Myriococcum albomyces*. Kluepfel D. J. Antibiot. 1972, 25, 109.
2. 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.
3. 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.