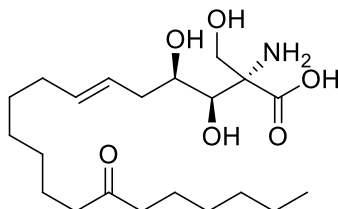


## Myriocin

Code No.: **BIA-M1219**

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



Synonyms : Thermozyiocidin, ISP 1

## Specifications

CAS #	: 35891-70-4
Molecular Formula	: C <sub>21</sub> H <sub>39</sub> NO <sub>6</sub>
Molecular Weight	: 401.5
Source	: <i>Mycelia sterilia</i>
Appearance	: Off-white to grey powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

## Application Notes

Myriocin is an  $\alpha$ -amino fatty acid derived from several genera of fungi, notably Myriococcum, Melanconis and Isaria. 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.

## 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.