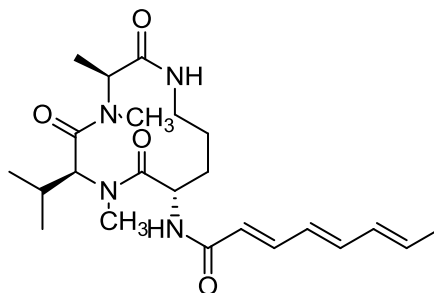


Aspochracin

Code No.: **BIA-A1717**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	: 22029-09-0
Molecular Formula	: C₂₃H₃₆N₄O₄
Molecular Weight	: 432.6
Source	: <i>Aspergillus</i> sp.
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Aspochracin is an insecticidal non-proteogenic cyclic tripeptide first isolated from *Aspergillus ochraceus* by Myokei and co-workers at University of Tokyo in 1969. The same authors elucidated its structure which comprises N-methylalanine, N-methylvaline and an ornithine cyclised through the delta rather than the alpha-amino group. The alpha-amino moiety is acylated with an octa-2,4,6-trienoic acid. Aspochracin is known to be non-toxic to mammalian cell lines and its biological activity and pharmacology are largely unexplored.

References

1. Aspochracin, a new insecticidal metabolite of *Aspergillus ochraceus* Part I. Isolation, structure and biological activities. Myokei R. et al., *Agr. Biol. Chem.* 33, 10, 1491.
2. Structure of aspochracin, an insecticidal metabolite of *Aspergillus ochraceus*. Myokei R. et al., *Tet. Lett.* 1969, 695.
3. JBIR-15, a new aspochracin derivative, isolated from a sponge-derived fungus, *Aspergillus sclerotiorum* Huber Sp080903f04. Motohashi K. et al., *Biosci. Biotechnol. Biochem.* 2009, 73, 1898.
4. Cyclic tripeptides from the halotolerant fungus *Aspergillus sclerotiorum* PT06-1. Zheng J. et al., *J. Nat. Prod.* 2010, 73, 1133.