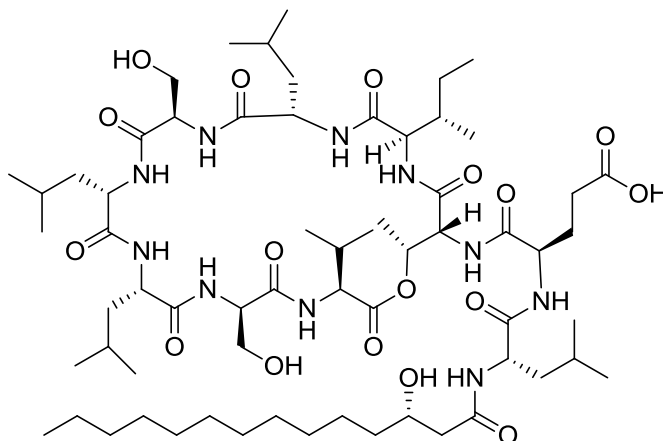


Orfamide A

Code No.: **BIA-O1430**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 939960-34-6
Molecular Formula	: C ₆₄ H ₁₁₄ N ₁₀ O ₁₇
Molecular Weight	: 1295.7
Source	: <i>Pseudomonas fluorescens</i>
Appearance	: White solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Orfamide A is the major component of a family of cyclic lipopeptides produced by *Pseudomonas fluorescens*, reported in 2007. The orfamides were discovered by employing genomic analysis with an isotope-guided fractionation to identify metabolites produced by orphan gene clusters containing non-ribosomal peptide synthetases. Orfamide A has received scant investigation of its bioprofile but appears to be a selective antifungal agent. Uniquely, orfamide A lyses zoospores of the oomycete, *Phytophthora ramorum*, the cause of sudden oak death. Orfamide A has a profound effect on the swarming motility of bacteria on agar surfaces.

References

1. The genomisotopic approach: a systematic method to isolate products of orphan biosynthetic gene clusters. Gross H. et al. Chem Biol. 2007, 14, 53.

Updated: 2 December 2014