

Product Name: Orfamide A

Product Number: O025

CAS Number: 939960-34-6

Molecular Formula: $C_{64}H_{114}N_{10}O_{17}$

Molecular Weight: 1295.7

Appearance: White solid

Storage Conditions: -20°C

Description: 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.

Orfamide A is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.