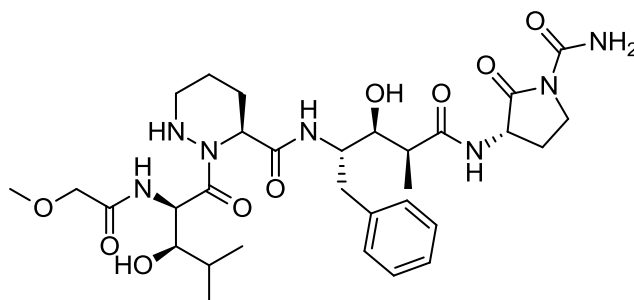


Padanamide A

Code No.: **BIA-P1639**

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



Synonyms : Actinoramide A

Specifications

CAS #	: 1314881-80-5
Molecular Formula	: C ₃₁ H ₄₇ N ₇ O ₉
Molecular Weight	: 661.8
Source	: <i>Streptomyces</i> sp.
Appearance	: Pale yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Padanamide A (actinoramide A) was isolated independently from marine *Streptomyces* strains by researchers at University of British Columbia, Canada and SCRIPPS in California, USA in 2011. Padanamide is a unique linear peptide featuring three uncommon amino acids, 2-amino-4-ureidobutanoic acid (Auba), and 4-amino-3-hydroxy-2-methyl-5-phenylpentanoic acid (Ahmp), and two rare but known amino acids, piperazine acid (Pip) and 3β-hydroxyisoleucine (Hle). Although possessing an unusual structure, padanamide has to date only been shown to exhibit weak antitumor and antimicrobial activity.

References

1. Padanamides A and B, highly modified linear tetrapeptides produced in culture by a *Streptomyces* sp. isolated from a marine sediment. Williams D.E. et al., *Org. Lett.* 2011, 13, 3936.
2. Isolation and characterization of actinoramides A-C, highly modified peptides from a marine *Streptomyces* sp. Nam S-J. et al., *Tetrahedron* 2011, 67, 6707.