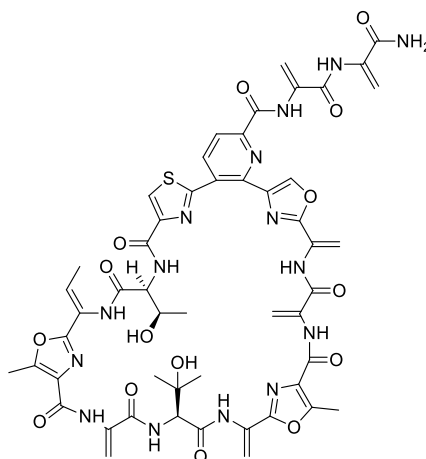


Berninamycin A

Code No.: **BIA-B1121**

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



Synonyms : Berninamycin, U27810

Specifications

CAS #	: 58798-97-3
Molecular Formula	: C ₅₁ H ₅₁ N ₁₅ O ₁₅ S
Molecular Weight	: 1146.1
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in DMF or DMSO. Moderately soluble in methanol or ethanol. Poor water solubility.

Application Notes

Berninamycin A is an antibiotic discovered in 1976 from a strain of *Streptomyces*. Berninamycin A is a macrocyclic "peptide" comprising atypical amino acids linked to thiazole and oxazoles. Chemically very complex, berninamycin A is an inducer of tipA, a gene that controls the bacterial transcription regulators, TipAL and TipAS, that are central to multidrug resistance. Berninamycin A is closely related to siomycin, a recently discovered inhibitor of oncogenic transcription factor, FoxM1.

References

1. Berninamycin. I. The structure of berninamycinic acid. Liesch, J.M. et al., J.Am.Chem.Soc. 1976, 98, 299.
2. Mode of action of berninamycin. An inhibitor of protein biosynthesis. Reusser F. Biochem. 1969, 8, 3303.
3. Identification of a chemical inhibitor of the oncogenic transcription factor Forkhead Box M1. Radhakrishnan et al., Cancer Res. 2006, 19, 9731.