

Product Name:	Berninamycin A
Product Number:	B046
CAS Number:	58798-97-3
Molecular Formula:	$C_{51}H_{51}N_{15}O_{15}S$
Molecular Weight:	1146.1
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>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. Berninamycin A is closely related to siomycin, a recently discovered inhibitor of oncogenic transcription factor, FoxM1.</p> <p>Berninamycin A is soluble in DMF and DMSO.</p>
Mechanism of Action:	<p>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.</p>
References:	<p>Berninamycin. I. The structure of berninamycinic acid. Liesch, J.M. et al. , J.Am.Chem.Soc. 1976, 98, 299.</p> <p>Mode of action of berninamycin. An inhibitor of protein biosynthesis. Reusser F. Biochem. 1969, 8, 3303.</p> <p>Identification of a chemical inhibitor of the oncogenic transcription factor Forkhead Box M1. Radhakrishnan et al. , Cancer Res. 2006, 19, 9731.</p>