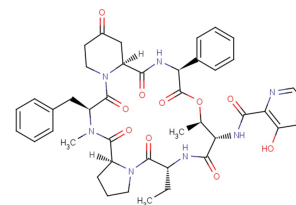


Data Sheet (Cat.No.T13304)

Virginiamycin S1

Chemical Properties

CAS No.:	23152-29-6
Formula:	C43H49N7O10
Molecular Weight:	823.89
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Virginiamycin S1 is a cyclic hexadepsipeptide antibiotic, inhibits bacterial protein synthesis at the level of aminoacyl-tRNA binding and peptide bond formation.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.214 mL	6.069 mL	12.138 mL
5 mM	0.243 mL	1.214 mL	2.428 mL
10 mM	0.121 mL	0.607 mL	1.214 mL
50 mM	0.024 mL	0.121 mL	0.243 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Ningsih F, et al. VisG is essential for biosynthesis of virginiamycin S, a streptogramin type B antibiotic, as a provider of the nonproteinogenic amino acid phenylglycine. *Microbiology*. 2011 Nov;157(Pt 11):3213-20.
2. Ge B, et al. Purification and characterization of virginiamycin M1 reductase from *Streptomyces virginiae*. *Sci Rep*. 2017 Sep 8;7(1):11017.

Inhibitors · Natural Compounds · Compound Libraries

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