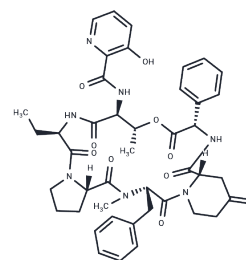


## Virginiamycin S1

## Chemical Properties

CAS No. :	23152-29-6
Formula:	C43H49N7O10
Molecular Weight:	823.89
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Virginiamycin S1 is a streptozotocin B antibiotic produced by <i>Streptomyces verticillioides</i> , which has antibacterial activity by inhibiting bacterial protein synthesis at the level of aminoacyl-tRNA binding and peptide bond formation.
Targets(IC50)	Antibacterial, Antibiotic

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2138 mL	6.0688 mL	12.1375 mL
5 mM	0.2428 mL	1.2138 mL	2.4275 mL
10 mM	0.1214 mL	0.6069 mL	1.2138 mL
50 mM	0.0243 mL	0.1214 mL	0.2428 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

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 (Reading)*. 2011 Nov;157(Pt 11):3213-3220.

Ge B, et al. Effects of low concentrations of erythromycin, penicillin, and virginiamycin on bacterial resistance development in vitro. *Sci Rep*. 2017 Sep 8;7(1):11017.

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