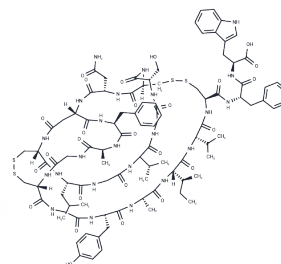


Siamycin I

Chemical Properties

CAS No. :	164802-68-0
Formula:	C97H131N23O26S4
Molecular Weight:	2163.49
Storage:	Keep away from moisture 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	Siamycin I is a tricyclic peptide originally isolated from <i>Streptomyces</i> and has antiviral and antibacterial activities. It is active against laboratory strains and clinical isolates of HIV-1 (ED50s = 0.05-0.45 and 0.89-5.7 μ M, respectively), as well as the CBL-20 strain of HIV-2 (ED50 = 0.45 μ M), in vitro. Siamycin I inhibits HIV-induced fusion of C8166 T cells with HIV-1-infected CEM-SS cells with an ED50 value of 0.08 μ M. It is also active against <i>B. subtilis</i> , <i>M. luteus</i> , and <i>S. aureus</i> (MICs = 1.6-6.3 μ g/ml). Siamycin I inhibits autophosphorylation of the <i>E. faecalis</i> quorum sensing kinase FsrC induced by gelatinase biosynthesis-activating pheromone (GBAP).
Targets(IC50)	HIV Protease,Antibiotic

Solubility Information

Solubility	Methanol: Soluble DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4622 mL	2.3111 mL	4.6222 mL
5 mM	0.0924 mL	0.4622 mL	0.9244 mL
10 mM	0.0462 mL	0.2311 mL	0.4622 mL
50 mM	0.0092 mL	0.0462 mL	0.0924 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481