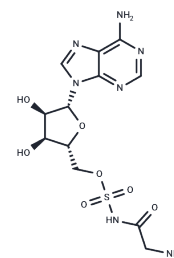


GlyRS-IN-1

Chemical Properties

CAS No. :	112921-11-6
Formula:	C ₁₂ H ₁₇ N ₇ O ₇ S
Molecular Weight:	403.37
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	GlyRS-IN-1 is a glycylyl-tRNA synthase (GlyRS) inhibitor disclosed in patent WO 2017066459 A1, and functions by disrupting aminoacyl-tRNA biosynthesis, thereby impairing protein synthesis; GlyRS-IN-1 also suppresses bacterial growth, making it a valuable chemical probe for studying translational machinery, antimicrobial target validation, and the development of novel antibiotics against resistant bacterial pathogens.
Targets(IC50)	Chloride channel

Solubility Information

Solubility	DMSO: 80 mg/mL (198.33 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (4.96 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4791 mL	12.3956 mL	24.7911 mL
5 mM	0.4958 mL	2.4791 mL	4.9582 mL
10 mM	0.2479 mL	1.2396 mL	2.4791 mL
50 mM	0.0496 mL	0.2479 mL	0.4958 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

Xiang-Lei Yang, et al. INHIBITION OF NEDDYLATION USING GLYCYL-tRNA SYNTHETASE INHIBITORS. WO 2017066459 A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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