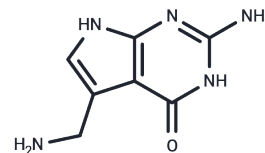


Preq1-Dihydrochloride

Chemical Properties

CAS No. :	86694-45-3
Formula:	C7H11Cl2N5O
Molecular Weight:	252.1
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>

HCl HCl



Biological Description

Description	Preq1-Dihydrochloride (pre-queuosine1 Dihydrochloride) is an intermediate of the queuosine pathway, it binds with high affinity to the aptamer of PreQ1 riboswitch, which attenuates protein expression.
Targets(IC50)	Nucleoside Antimetabolite/Analog,Others

Solubility Information

Solubility	DMSO: 10 mg/mL (39.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 8.33 mg/mL (33.04 mM),Suspension. <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	3.9667 mL	19.8334 mL	39.6668 mL
5 mM	0.7933 mL	3.9667 mL	7.9334 mL
10 mM	0.3967 mL	1.9833 mL	3.9667 mL
50 mM	0.0793 mL	0.3967 mL	0.7933 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

Vlack E V , Topp S , Seeliger J C , et al. Characterization of Engineered PreQ1 Riboswitches for Inducible Gene Regulation in Mycobacteria[J]. Journal of Bacteriology, 2017, 199(6):e00656-16.

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