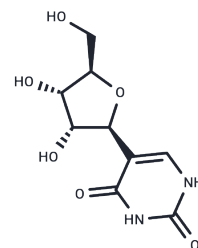


Pseudouridine

Chemical Properties

CAS No. :	1445-07-4
Formula:	C ₉ H ₁₂ N ₂ O ₆
Molecular Weight:	244.2
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Pseudouridine is the most abundant modified nucleoside in non-coding RNAs. It enhances the function of transfer RNA and ribosomal RNA by stabilizing RNA structure.
Targets(IC50)	Nucleoside Antimetabolite/Analog, Endogenous Metabolite, DNA/RNA Synthesis

Solubility Information

Solubility	DMSO: 125 mg/mL (511.88 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: 4 mg/mL (16.38 mM), Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (40.95 mM), Solution. <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	4.095 mL	20.475 mL	40.950 mL
5 mM	0.819 mL	4.095 mL	8.190 mL
10 mM	0.4095 mL	2.0475 mL	4.095 mL
50 mM	0.0819 mL	0.4095 mL	0.819 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

Carlile TM, et al. Pseudouridine profiling reveals regulated mRNA pseudouridylation in yeast and human cells. Nature. 2014 Nov 6;515(7525):143-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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