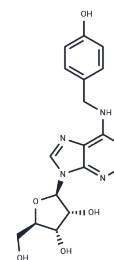


## N6-(4-Hydroxybenzyl)adenosine

## Chemical Properties

CAS No. :	110505-75-4
Formula:	C17H19N5O5
Molecular Weight:	373.36
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	N6-(4-Hydroxybenzyl)adenosine (Para-topolin riboside) is a platelet aggregation inhibitor.
Targets(IC50)	P2Y Receptor
In vitro	A few naturally occurring N(6)-substituted adenosine derivatives (cytokinin ribosides) were investigated as inhibitors of platelet aggregation induced in vitro by collagen and their activity range was demonstrated (IC50: 6.77-141 μM)[1].

## Solubility Information

Solubility	H2O: < 0.1 mg/mL (insoluble) DMSO: 100 mg/mL (267.84 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 (10.71 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

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	1mg	5mg	10mg
1 mM	2.6784 mL	13.3919 mL	26.7838 mL
5 mM	0.5357 mL	2.6784 mL	5.3568 mL
10 mM	0.2678 mL	1.3392 mL	2.6784 mL
50 mM	0.0536 mL	0.2678 mL	0.5357 mL

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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

Vistoli G, et al. Naturally occurring N(6)-substituted adenosines (cytokinin ribosides) are in vitro inhibitors of platelet aggregation: an in silico evaluation of their interaction with the P2Y<sub>12</sub> receptor. *Bioorg Med Chem Lett*. 2014 Dec 15;24(24):5652-5655.

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