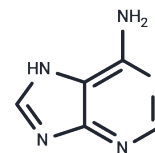


Adenine monohydrochloride hemihydrate

Chemical Properties

CAS No. :	6055-72-7
Formula:	C ₅ H ₈ ClN ₅ O
Molecular Weight:	189.6
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

H₂O HCl

Biological Description

Description	Adenine monohydrochloride hemihydrate is a high affinity adenine receptor agonist (K _i = 18 nM at rat adenine receptor). It inhibits forskolin-stimulated cAMP formation in CHO cells transfected with the adenine receptor and also stimulates GTPγS binding (pEC ₅₀ values are 8.54 and 7.21 respectively).
Targets(IC ₅₀)	Endogenous Metabolite, Adenosine Receptor, DNA/RNA Synthesis
In vivo	Procyclidine is used as antiparkinsonian agents because of their anti-cholinergic action is also known to have NMDA antagonist properties. Unlike other NMDA antagonists, this agents-because of their anti-cholinergic action-are devoid of neurotoxic side effects [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (263.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2743 mL	26.3713 mL	52.7426 mL
5 mM	1.0549 mL	5.2743 mL	10.5485 mL
10 mM	0.5274 mL	2.6371 mL	5.2743 mL
50 mM	0.1055 mL	0.5274 mL	1.0549 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

Gorzalka S, et al. Evidence for the functional expression and pharmacological characterization of adenine receptors in native cells and tissues. *Mol Pharmacol.* 2005 Mar;67(3):955-64.

Bender E, et al. Characterization of an orphan G protein-coupled receptor localized in the dorsal root ganglia reveals adenine as a signaling molecule. *Proc Natl Acad Sci U S A.* 2002 Jun 25;99(13):8573-8.

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