Data Sheet (Cat.No.T20042)

TargetMol

8-Azaadenine

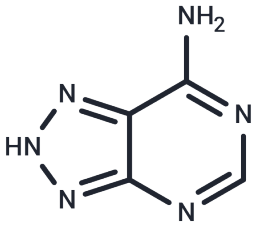
Chemical Properties

CAS No. : 1123-54-2

Formula: C4H4N6

Molecular Weight: 136.11

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	8-Azaadenine (NSC-32797) is an inhibitor of xanthine oxidase with IC50 of 0.54 μM and Ki of 0.66 μM.
Targets(IC50)	Xanthine Oxidase

Solubility Information

Solubility	DMSO: 10 mg/mL (73.47 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: 1 mg/mL (7.35 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.347 mL	36.735 mL	73.470 mL
5 mM	1.4694 mL	7.347 mL	14.694 mL
10 mM	0.7347 mL	3.6735 mL	7.347 mL
50 mM	0.1469 mL	0.7347 mL	1.4694 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

Minton JA, et al. Heterologous complementation studies reveal the solute transport profiles of a two-member nucleobase cation symporter 1 (NCS1) family in Physcomitrella patens. Plant Physiol Biochem. 2016 Mar;100:12-17.

Stachelska-Wierzchowska A, et al. Site-Selective Ribosylation of Fluorescent Nucleobase Analogs Using Purine-Nucleoside Phosphorylase as a Catalyst: Effects of Point Mutations. Molecules. 2015 Dec 28;21(1):E44.

Chawla M, et al. Structural and Energetic Impact of Non-Natural 7-Deaza-8-Azaadenine and Its 7-Substituted Derivatives on H-Bonding Potential with Uracil in RNA Molecules. J Phys Chem B. 2015 Oct 15;119(41):12982-9.

Sheu SY, Lin YC, Chiang HC. Inhibition of xanthine oxidase by synthetic cytokinin analogues. Anticancer Res. 1997 Mar-Apr;17(2A):1043-9.