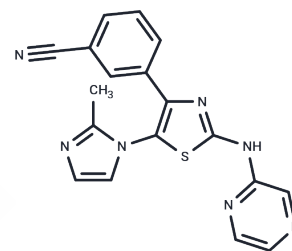


Adenosine antagonist-1

Chemical Properties

CAS No. : 431040-19-6
Formula: C₁₈H₁₃N₇S
Molecular Weight: 359.41
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	Adenosine antagonist-1 acts as an adenosine A3 receptor (AA3R) antagonist.
Targets(IC50)	Adenosine Receptor
In vitro	Adenosine antagonist-1 exhibits antagonistic properties towards the adenosine A3 receptor (AA3R).[1]

Solubility Information

Solubility	DMSO: 3.6 mg/mL (10.02 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 (2.78 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

	1mg	5mg	10mg
1 mM	2.7823 mL	13.9117 mL	27.8234 mL
5 mM	0.5565 mL	2.7823 mL	5.5647 mL
10 mM	0.2782 mL	1.3912 mL	2.7823 mL
50 mM	0.0556 mL	0.2782 mL	0.5565 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

de Graaf C, et al. Molecular modeling of the second extracellular loop of G-protein coupled receptors and its implication on structure-based virtual screenin. Proteins. 2008;71(2):599-620.

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