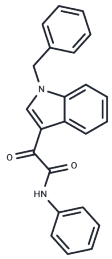
Data Sheet (Cat.No.T9238)

TargetMol

KI-7

Chemical Properties



CAS No. : 1489263-00-4

Formula: C23H18N2O2

Molecular Weight: 354.4

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	KI-7 is an adenosine A2B receptor positive allosteric modulator.
Targets(IC50)	Adenosine Receptor
In vitro	KI-7 potentiates the cAMP accumulation induced by the non-selective A2B adenosine receptor agonist NECA (EC50=445.8 nM). KI-7 also potentiates the cAMP accumulation induced by the selective A2B adenosine receptor agonist BAY 60-6583 as well as by adenosine with EC50s of 2390 nM and 2550 nM, respectively[1][2].

Solubility Information

Solubility	DMSO: 240 mg/mL (677.2 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (9.31 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	2.8217 mL	14.1084 mL	28.2167 mL
5 mM	0.5643 mL	2.8217 mL	5.6433 mL
10 mM	0.2822 mL	1.4108 mL	2.8217 mL
50 mM	0.0564 mL	0.2822 mL	0.5643 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

Trincavelli ML, et al. Allosteric modulators of human A2B adenosine receptor. Biochim Biophys Acta. 2014;1840(3): 1194-1203.
Trincavelli ML, et al. Osteoblast differentiation and survival: A role for A2B adenosine receptor allosteric modulators. Biochim Biophys Acta. 2014;1843(12):2957-2966.

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