

CAY10498

Chemical Properties

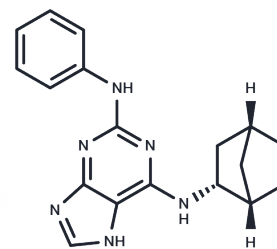
CAS No. : 863202-33-9

Formula: C₁₈H₂₀N₆

Molecular Weight: 320.39

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	The A1, A2A, A2B, and A3 adenosine receptors (ARs) are ubiquitous G protein-coupled receptors. The four AR subtypes have been implicated in several areas of therapeutic interest such as stroke and other ischemic conditions, as well as inflammation, neurodegenerative diseases, diabetes, and sleep regulation. A3 AR antagonists are of interest as therapeutic agents in glaucoma agents and inflammation. CAY10498 is a potent and selective A3 AR antagonist exhibiting a K_i of 37 nM with 60 and 200-fold selectivity over A1 and A2A adenosine receptors, respectively. CAY10498 is also a structural analog of reversine, a dedifferentiation agent of embryonic progenitor cells. However, no dedifferentiation effects or any connection between A3 AR antagonism and dedifferentiation have been demonstrated.
Targets(IC50)	Others, Adenosine Receptor

Solubility Information

Solubility	DMSO: 10 mg/mL (31.21 mM), Sonication is recommended. DMSO:PBS (pH 7.2) (1:4): 0.2 mg/mL (0.62 mM), Sonication is recommended. DMF: 10 mg/mL (31.21 mM), Sonication is recommended. Ethanol: 1 mg/mL (3.12 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	3.1212 mL	15.606 mL	31.212 mL
5 mM	0.6242 mL	3.1212 mL	6.2424 mL
10 mM	0.3121 mL	1.5606 mL	3.1212 mL
50 mM	0.0624 mL	0.3121 mL	0.6242 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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