

PD 81723

Chemical Properties

CAS No. : 132861-87-1

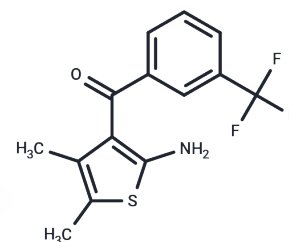
Formula: C₁₄H₁₂F₃NOS

Molecular Weight: 299.31

Keep away from moisture

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	PD 81723 is an adenosine receptor binding enhancer that potentiates the inhibitory effects of exogenous adenosine in a dose-dependent manner in hippocampal brain sections, PD 81723 is commonly applied in neuroscience research to investigate adenosine receptor modulation, synaptic transmission, neuromodulation, and neuroprotective signaling pathways.
Targets(IC50)	Adenosine Receptor
In vitro	In rat hippocampal slices, PD 81723 (10-50 μM) acted as a selective allosteric enhancer of the Adenosine A1 receptor. It potentiated the inhibitory effect of adenosine and 2-chloroadenosine on synaptic transmission and enhanced the depression of population spike amplitude in the CA1 region [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (267.28 mM), Sonication is recommended. Ethanol: <29.93 mg/mL, 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	3.341 mL	16.7051 mL	33.4102 mL
5 mM	0.6682 mL	3.341 mL	6.682 mL
10 mM	0.3341 mL	1.6705 mL	3.341 mL
50 mM	0.0668 mL	0.3341 mL	0.6682 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

Janusz CA, et al. Functional activity of the adenosine binding enhancer, PD 81,723, in the in vitro hippocampal slice. Brain Res. 1991 Dec 20;567(2):181-7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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