Data Sheet (Cat.No.T23588)

TargetMol

9-CP-Ade Mesylate

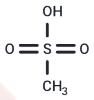
Chemical Properties

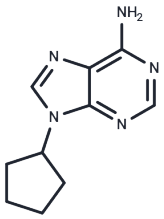
CAS No. : 189639-09-6

Formula: C11H17N5O3S

Molecular Weight: 299.35

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	9-CP-Ade Mesylate (9 CP Ade Mesylate) is a cell-permeable, stable and non-competitive inhibitor of adenylate cyclase.
Targets(IC50)	Adenylate cyclase
In vitro	9-CP-Ade Mesylate (200 μM; 30 min) inhibits cAMP response element binding protein (CREB) activation and completely blocks neurogenesis in PC12 cells.[1] 9-CP-Ade Mesylate (100 μM; 30 min) attenuates the effects of relaxin on mechanical activity and prevents relaxin-induced hyperpolarization, thereby participating in the regulation of relaxin on ileal smooth muscle activity in female CD1 Swiss mice.[2] 9-CP-Ade Mesylate (100 μM; 6 h) promotes restoration of the keratinocyte permeability barrier by inhibiting cAMP synthesis in male hairless mice.[3]

Solubility Information

Solubility	DMSO: 29.94 mg/mL (100.02 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3406 mL	16.7029 mL	33.4057 mL
5 mM	0.6681 mL	3.3406 mL	6.6811 mL
10 mM	0.3341 mL	1.6703 mL	3.3406 mL
50 mM	0.0668 mL	0.3341 mL	0.6681 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

Riese U, et al. Militarinone A induces differentiation in PC12 cells via MAP and Akt kinase signal transduction pathways. FEBS Lett. 2004 Nov 19;577(3):455-9.
Idrizaj E, et al. Relaxin influences ileal muscular activity through a dual signaling pathway in mice. World J Gastroenterol. 2018 Feb 28;24(8):882-893.
Denda M, et al. Association of cyclic adenosine monophosphate with permeability barrier homeostasis of murine skin. J Invest Dermatol. 2004 Jan;122(1):140-6.

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