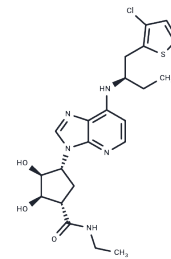


AMP-579

Chemical Properties

CAS No. : 143395-98-6
 Formula: C₂₂H₂₈ClN₅O₃S
 Molecular Weight: 478.01
 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	AMP-579 is an adenosine A1 receptor agonist. AMP-579 also acts as a A2b-adenosine receptor agonist in human 293 cells and rabbit hearts.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.092 mL	10.460 mL	20.9201 mL
5 mM	0.4184 mL	2.092 mL	4.184 mL
10 mM	0.2092 mL	1.046 mL	2.092 mL
50 mM	0.0418 mL	0.2092 mL	0.4184 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

- Saegusa N, Sato T, Ogura T, Komuro I, Nakaya H. Inhibitory effects of AMP 579, a novel cardioprotective adenosine A1/A2A receptor agonist, on native IKr and cloned HERG current. *Naunyn Schmiedeberg's Arch Pharmacol.* 2004 Dec;370(6):492-9. PubMed PMID: 15558241.
- Kristo G, Yoshimura Y, Keith BJ, Stevens RM, Jahania SA, Mentzer RM Jr, Lasley RD. Adenosine A1/A2a receptor agonist AMP-579 induces acute and delayed preconditioning against in vivo myocardial stunning. *Am J Physiol Heart Circ Physiol.* 2004 Dec;287(6):H2746-53. PubMed PMID: 15271662.
- Xu Z, Downey JM, Cohen MV. Timing and duration of administration are crucial for antiinfarct effect of AMP 579 infused at reperfusion in rabbit heart. *Heart Dis.* 2003 Nov-Dec;5(6):368-71. PubMed PMID: 14633317.
- Xu Z, Jiao Z, Cohen MV, Downey JM. Protection from AMP 579 can be added to that from either cariporide or ischemic preconditioning in ischemic rabbit heart. *J Cardiovasc Pharmacol.* 2002 Oct;40(4):510-8. PubMed PMID: 12352312.

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