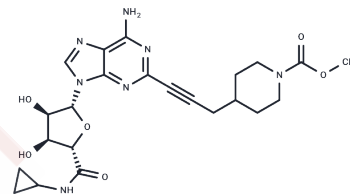


Evodenoson

Chemical Properties

CAS No. :	844873-47-8
Formula:	C ₂₃ H ₂₉ N ₇ O ₆
Molecular Weight:	499.52
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	Evodenoson (ATL313) is a potent and selective adenosine A2a receptor (A2aR) agonist for the treatment of eye diseases, tumors, and immune system disorders, and may be used in studies of open-angle glaucoma and blood tumors.
Targets(IC50)	Adenosine Receptor
In vivo	The rats were divided into 3 groups: Group 1 received a continuous intravenous infusion of saline given 10 min prior to ischemia and throughout reperfusion (n=8); Group 2 received a continuous intravenous infusion of 10 ng/kg/min of ATL 313 given 10 min prior to ischemia and throughout reperfusion (n=8); and group 3 received an intravenous bolus of ATL 313 (900 ng/Kg body weight) given 10 min prior to ischemia, and continuous intravenous infusion of 10 ng/kg/min of ATL 313 started at 20 min after ischemia and throughout reperfusion (n=8). After the euthanasia of the rats, the hearts were harvested for the assessment of the risk zone and zone of necrosis of the left ventricle. Conclusion: A(2A)AR agonist ATL 313 significantly reduced infarct size and improved LV contractility at the end of reperfusion assessed by LV dp/dt at a dose of 900 ng/Kg. The mechanisms for the observed cardioprotection effect of ATL 313 remain to be determined.[2]

Solubility Information

Solubility	DMSO: 50 mg/mL (100.1 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	2.0019 mL	10.0096 mL	20.0192 mL
5 mM	0.4004 mL	2.0019 mL	4.0038 mL
10 mM	0.2002 mL	1.001 mL	2.0019 mL
50 mM	0.040 mL	0.2002 mL	0.4004 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

Cavalcante IC, et al. Effect of novel A2A adenosine receptor agonist ATL 313 on Clostridium difficile toxin A-induced murine ileal enteritis. *Infect Immun*. 2006;74(5):2606-2612.

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Gazoni LM, et al. Additive protection against lung ischemia-reperfusion injury by adenosine A2A receptor activation before procurement and during reperfusion. *J Thorac Cardiovasc Surg*. 2008;135(1):156-165.

Koizumi S, et al. Attenuation of gastric mucosal inflammation induced by indomethacin through activation of the A2A adenosine receptor in rats. *J Gastroenterol*. 2009;44(5):419-425.

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