

AM-8123

Chemical Properties

CAS No. : 2049973-02-4

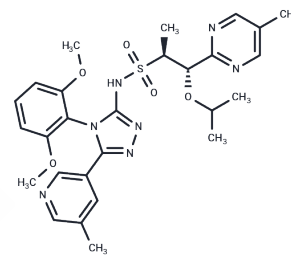
Formula: C₂₇H₃₃N₇O₅S

Molecular Weight: 567.66

Store at low temperature

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	AM-8123 is an orally available nonpeptide APJ agonist. AM-8123 reduces collagen load and improves cardiac function. AM-8123 ameliorates myocardial infarction in rats and can be used to study cardiovascular diseases such as heart failure.
Targets(IC50)	Apelin receptor
In vitro	AM-8123 inhibits histamine-stimulated cAMP production and promotes G α protein activation[1].
In vivo	In 2-3-month-old Lewis rats, AM-8123 (100 mg/kg; oral administration) resulted in sustained improvement in systolic function. Additionally, echocardiography measurements showed that AM-8123 reduced end-diastolic volume (EDV) and end-systolic volume (ESV); however, no significant changes were observed by invasive pressure-volume conductance catheter measurements at the end of the study[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7616 mL	8.8081 mL	17.6162 mL
5 mM	0.3523 mL	1.7616 mL	3.5232 mL
10 mM	0.1762 mL	0.8808 mL	1.7616 mL
50 mM	0.0352 mL	0.1762 mL	0.3523 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

Ason B, et al. Cardiovascular response to small-molecule APJ activation. JCI Insight. 2020;5(8):e132898. Published 2020 Apr 23.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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