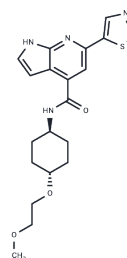


MK-0159

Chemical Properties

CAS No. : 2641484-61-7
Formula: C₂₀H₂₄N₄O₃S
Molecular Weight: 400.495
Appearance: no data available
Storage: keep away from direct sunlight, keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	MK-0159 is an orally available, highly potent CD38 inhibitor with myocardial injury protection for the study of cardiac ischemia and reperfusion injury.
Targets(IC ₅₀)	CD38
In vitro	MK-0159 (0-50 μ M, 24 hours) increased the levels of NAD ⁺ both intracellularly and extracellularly in A549 cells and HMVEC cells[1].
In vivo	In mice with cardiac ischemia/reperfusion injury, MK-0159 (30 mg/kg; oral) is capable of reducing infarct size[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (199.75 mM), Sonification 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	2.4969 mL	12.4844 mL	24.9688 mL
5 mM	0.4994 mL	2.4969 mL	4.9938 mL
10 mM	0.2497 mL	1.2484 mL	2.4969 mL
50 mM	0.0499 mL	0.2497 mL	0.4994 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.

Reference

Lagu B, et al. Orally Bioavailable Enzymatic Inhibitor of CD38, MK-0159, Protects against Ischemia/Reperfusion Injury in the Murine Heart. J Med Chem. 2022 Jun 28.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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