

CC-99677

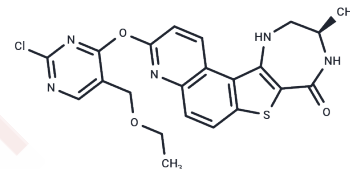
Chemical Properties

CAS No. : 1887069-10-4

Formula: C₂₂H₂₀ClN₅O₃S

Molecular Weight: 469.94

Storage: Store at low temperature, Keep away from direct sunlight
 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	CC-99677 (Gamcemetinib) is a selectively targeted covalent MAPKAPK2 (MK2) inhibitor for autoimmune diseases that translates biochemical potency into cellular potency as demonstrated by potent inhibition of heat shock protein 27 (HSP1) phosphorylation in LPS-activated monocyte THP-27 cells via a nucleophilic aromatic substitution (SNAr) mechanism. CC-99677 in Rat experiments demonstrated potency in both biochemical (IC ₅₀ = 156.3 nM) and cellular assays (EC ₅₀ = 89 nM).
Targets(IC ₅₀)	HSP, MAPK
In vitro	CC-99677 is a potent, covalent, and irreversible inhibitor of the mitogen-activated protein (MAP) kinase-activated protein kinase-2 (MK2) pathway in both biochemical (IC ₅₀ = 156.3 nM) and cell based assays (EC ₅₀ = 89 nM). [1]

Solubility Information

Solubility	DMSO: 14.1 mg/mL (30 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	2.1279 mL	10.6397 mL	21.2793 mL
5 mM	0.4256 mL	2.1279 mL	4.2559 mL
10 mM	0.2128 mL	1.064 mL	2.1279 mL
50 mM	0.0426 mL	0.2128 mL	0.4256 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

RAMIREZ V, et al. METHODS OF TREATING A MK2-MEDIATED DISORDER. WO2020236636.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481