

AM-5308

Chemical Properties

CAS No. : 2410796-89-1

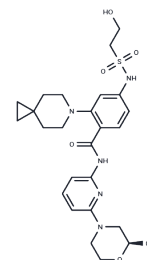
Formula: C₂₆H₃₅N₅O₅S

Molecular Weight: 529.65

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-5308 is a kinesin KIF18A inhibitor that can be used to study cancer.
Targets(IC50)	Microtubule Associated,Kinesin
In vitro	AM-5308 and AM-1882 have a favorable in vitro profile against a panel of normal cell types, which is distinct from myelosuppressive and neurotoxic anti-mitotic agents. Nevertheless, higher micromolar concentrations of AM-5308 and AM-1882 may adversely affect normal cells. [1]
In vivo	Mice with established tumors were administered vehicle, AM-1882 at 50 or 100mg per kg or AM-5308 at 25 or 50mg/kg daily for 18d. AM-1882 and AM-5308 inhibited tumor growth with evidence of tumor regression. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (151.04 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	1.888 mL	9.4402 mL	18.8804 mL
5 mM	0.3776 mL	1.888 mL	3.7761 mL
10 mM	0.1888 mL	0.944 mL	1.888 mL
50 mM	0.0378 mL	0.1888 mL	0.3776 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

Payton M, et al. Small-molecule inhibition of kinesin KIF18A reveals a mitotic vulnerability enriched in chromosomally unstable cancers. *Nat Cancer*. 2024 Jan;5(1):66-84.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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