

UNC2250

Chemical Properties

CAS No. : 1493694-70-4

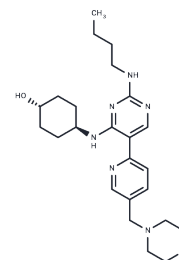
Formula: C₂₄H₃₆N₆O₂

Molecular Weight: 440.58

Store under nitrogen

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	UNC2250 is an effective and specific Mer inhibitor (IC ₅₀ =1.7 nM).
Targets(IC ₅₀)	TAM Receptor
In vivo	According to in vivo PK experiment, UNC2250 has a moderate half-life, clearance, and volume of distribution as well as reasonable oral bioavailability and good solubility. [1]
Kinase Assay	Microfluidic Capillary Electrophoresis (MCE) Assay: Activity assays are performed in a 384-well, polypropylene microplate in a final volume of 50 µL of 50 mM Hepes, pH 7.4, containing 10 mM MgCl ₂ , 1.0 mM DTT, 0.01% Triton X-100, 0.1% bovine serum albumin (BSA), containing 1.0 µM fluorescent substrate and ATP at the K _m for each enzyme. All reactions are terminated by addition of 20 µL of 70 mM EDTA. After an 180 min incubation, phosphorylated and unphosphorylated substrate peptides are separated in buffer supplemented with 1× CR-8 on a LabChip EZ Reader equipped with a 12-sipper chip. Data are analyzed using EZ Reader software.
Cell Research	BT-12 rhabdoid tumor cells (10 ⁷ 000 cells) are cultured in 2.0 mL of 0.35% soft agar containing 0.5× RPMI medium, 7.5% FBS, and the indicated concentrations of 10 or DMSO vehicle only and overlaid with 0.5 mL of 1× RPMI medium containing 15% FBS and 10 or DMSO vehicle only. Medium and 10 or vehicle are refreshed 2 times per week. Colonies were stained with thiazolyl blue tetrazolium bromide and counted after 3 weeks. Colo699 NSCLC cells (15 ⁷ 000 cells) are cultured in 1.5 mL of 0.35% soft agar containing 1× RPMI medium and 10% FBS and overlaid with 2.0 mL of 1× RPMI medium containing 10% FBS and the indicated concentrations of 10 or DMSO vehicle only. Medium and 10 or vehicle are refreshed 3 times per week. Colonies are stained with nitrotetrazolium blue chloride and counted after 2 weeks.(Only for Reference)

Solubility Information

Solubility	DMSO: 25 mg/mL (56.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

In vivo Formulation	20% Cremophor EL: 5 mg/mL (11.35 mM), Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2697 mL	11.3487 mL	22.6974 mL
5 mM	0.4539 mL	2.2697 mL	4.5395 mL
10 mM	0.227 mL	1.1349 mL	2.2697 mL
50 mM	0.0454 mL	0.227 mL	0.4539 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

Zhang W, et al. J Med Chem. 2013, 56(23), 9683-9692.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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