

HGC652

Chemical Properties

CAS No. : 3055558-98-7

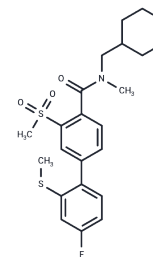
Formula: C₂₃H₂₈FNO₃S₂

Molecular Weight: 449.6

Keep away from direct sunlight

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	HGC652 is a molecular glue targeting E3 ubiquitin ligase TRIM21 (KD=0.061 μ M), promoting its formation of a ternary complex with NUP98 to induce degradation of NUP155 and nuclear pore complex proteins. HGC652 inhibits proliferation and induces cell death in multiple cancer cell lines.
Targets(IC ₅₀)	E1/E2/E3 Enzyme,Molecular Glues
In vitro	HGC652 (72h) exhibited growth inhibition in PANC-1 cells (transfected with TRIM21 siRNA), with an IC ₅₀ of 0.094 μ M. For eight other cancer cell lines, HGC652 (72h) showed IC ₅₀ values ranging from 0.106 to 0.822 μ M[1]. HGC652 (0.5/5 μ M; 24h) induced significant degradation of NUP155 and GLE1 proteins in PANC-1 cells [1].

Solubility Information

Solubility	DMSO: 50.00 mg/mL (111.21 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	2.2242 mL	11.121 mL	22.242 mL
5 mM	0.4448 mL	2.2242 mL	4.4484 mL
10 mM	0.2224 mL	1.1121 mL	2.2242 mL
50 mM	0.0445 mL	0.2224 mL	0.4448 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

Li X, et al. Chemically Induced Nuclear Pore Complex Protein Degradation via E3 Ligase TRIM21[J]. bioRxiv, 2024: 2024.12. 03.626577.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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