

HG-7-86-01

Chemical Properties

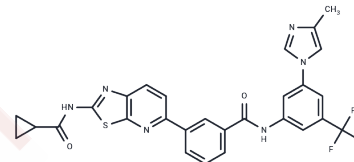
CAS No. : 1258391-14-8

Formula: C₂₈H₂₁F₃N₆O₂S

Molecular Weight: 562.57

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	HG-7-86-01 is a potent and selective type II tyrosine kinase inhibitor with antiproliferative activity against mutant T315I- Bcr-Abl for the treatment of chronic myeloid leukemia (CML).
Targets(IC ₅₀)	Bcr-Abl
In vitro	HG-7-86-01 exhibits antiproliferative activity across multiple cell lines harboring mutant FLT3: Ba/F3-FLT3-ITD: IC ₅₀ = 125-250 nM Ba/F3-Y572C: IC ₅₀ = 12.5-25 nM Ba/F3-N841I: IC ₅₀ = 200-400 nM Ba/F3-D835Y: IC ₅₀ = 500-1000 nM [1]

Solubility Information

Solubility	DMSO: 2 mg/mL (3.56 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	1.7776 mL	8.8878 mL	17.7756 mL
5 mM	0.3555 mL	1.7776 mL	3.5551 mL
10 mM	0.1778 mL	0.8888 mL	1.7776 mL
50 mM	0.0356 mL	0.1778 mL	0.3555 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

Weisberg E, et al. Discovery and characterization of novel mutant FLT3 kinase inhibitors. Mol Cancer Ther. 2010 Sep;9(9):2468-77.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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