

CHR-6494 TFA

Chemical Properties

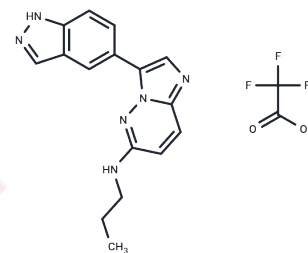
CAS No. : 1458630-17-5

Formula: C₁₈H₁₇F₃N₆O₂

Molecular Weight: 406.36

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	CHR-6494 TFA is a potent haspin inhibitor with an IC ₅₀ of 2 nM, inhibiting histone H3T3 phosphorylation. It induces apoptosis in cancer cells, including melanoma and breast cancer, and is useful for cancer research.
Targets(IC ₅₀)	Others,Haspin Kinase
In vitro	Administration of CHR-6494 (TFA; 0-10-5?nM; 72 hours) dose-dependently inhibits the growth of cancer cells, such as HCT-116, HeLa, MDA-MB-231, and Wi-38 cells, with an IC ₅₀ s of 500?nM, 473?nM, 752?nM and 1059 nM, respectively[1]. Administration of CHR-6494 (TFA; 500 nM) produces a mitotic catastrophe with abnormal morphology of the mitotic spindle and centrosome amplification, and upregulates the spindle assembly checkpoint protein BUB1 and the marker of mitotic arrest cyclin B1[1].
In vivo	Administration of CHR-6494 (TFA; 50?mg/kg; i.p. in two cycles of five consecutive days for 15 days) inhibits the growth of tumor and no obvious body weight change is observed in nude mice bearing HCT-116 human colorectal cancer cells[1].

Solubility Information

Solubility	DMSO: 55 mg/mL (135.35 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	2.4609 mL	12.3044 mL	24.6087 mL
5 mM	0.4922 mL	2.4609 mL	4.9217 mL
10 mM	0.2461 mL	1.2304 mL	2.4609 mL
50 mM	0.0492 mL	0.2461 mL	0.4922 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

Huertas D, et al. Antitumor activity of a small-molecule inhibitor of the histone kinase Haspin. *Oncogene*. 2012 Mar 15;31(11):1408-18.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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