

CH6953755

Chemical Properties

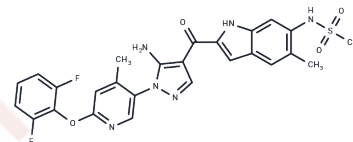
CAS No. : 2055918-71-1

Formula: C₂₆H₂₂F₂N₆O₄S

Molecular Weight: 552.55

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	CH6953755 is an orally active, potent and selective YES1 kinase inhibitor (IC ₅₀ :1.8 nM). CH6953755 has anticancer activity and inhibits cancer cell proliferation by inhibiting YES1 kinase.
Targets(IC ₅₀)	Src
In vitro	CH6953755 inhibits the growth of cancer cell lines with YES1 amplification in a concentration-dependent manner (0.001-1 μM; 4 days)[1]. Preventing autophosphorylation of YES1 at the Tyr426 site, CH6953755 (0.001-1 μM; 2 hours) upregulates enzymatic activity in KYSE70 cells carrying YES1 amplification[1]. In KYSE70 and RERF-LC-AI cells with YES1 amplification, CH6953755 (0.1, 0.3, 1, 3 μM) inhibits TEAD luciferase reporter gene activity[1].
In vivo	CH6953755 exhibits selective antitumor activity in xenograft tumors following oral administration (60 mg/kg/day; 10 days), accompanied by inhibition of phosphorylation at Tyr426 of YES1[1]. In a dose-dependent manner, CH6953755 (oral; 7.5, 15, 30, 60 mg/kg) inhibits phosphorylation at Tyr426 of YES1[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (180.98 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.24 mM), Sonication is recommended. <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>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8098 mL	9.049 mL	18.0979 mL
5 mM	0.362 mL	1.8098 mL	3.6196 mL
10 mM	0.181 mL	0.9049 mL	1.8098 mL
50 mM	0.0362 mL	0.181 mL	0.362 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

Hamanaka N, et al. YES1 Is a Targetable Oncogene in Cancers Harboring YES1 Gene Amplification. *Cancer Res.* 2019 Nov 15;79(22):5734-5745.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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