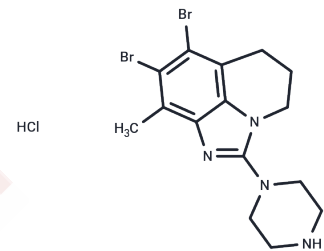


SEL120-34A HCl

Chemical Properties

CAS No. :	1609452-30-3
Formula:	C ₁₅ H ₁₉ Br ₂ ClN ₄
Molecular Weight:	450.6
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	SEL120-34A HCl is a selective, orally available and ATP-competitive inhibitor of CDK8 (CDK8/CycC and CDK19/CycC with IC ₅₀ s of 4.4 nM and 10.4 nM , respectively), with antitumor activity.
Targets(IC ₅₀)	CDK
In vitro	SEL120-34A HCl is a selective, ATP-competitive inhibitor of CDK8(IC ₅₀ of 4.4 nM and 10.4 nM for CDK8/CycC and CDK19/CycC, respectively). SEL120-34A HCl is active against a panel of AML cell lines (GI ₅₀ <1 μM), such as SKNO-1, KG-1, HEL-60, MOLM-16, MV-4-11, OciAML-2, MOLM-6 and OciAML-3 cells, consistent with the effective inhibition range of STAT1 S727 and STAT5 S726.
In vivo	The growth of tumor in mice bearing MV4-11 cancer cells inhibited by SEL120-34A (30, 60 mg/kg, p.o.), and also arrests the growth of KG-1-derived tumors at 30 mg/kg via oral administration.

Solubility Information

Solubility	DMSO: 8.33 mg/mL (18.49 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: 0.5 mg/mL (1.11 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	2.2193 mL	11.0963 mL	22.1926 mL
5 mM	0.4439 mL	2.2193 mL	4.4385 mL
10 mM	0.2219 mL	1.1096 mL	2.2193 mL
50 mM	0.0444 mL	0.2219 mL	0.4439 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

Rzyski T, et al. SEL120-34A is a novel CDK8 inhibitor active in AML cells with high levels of serine phosphorylation of STAT1 and STAT5 transactivation domains. *Oncotarget*. 2017 May 16;8(20):33779-33795.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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