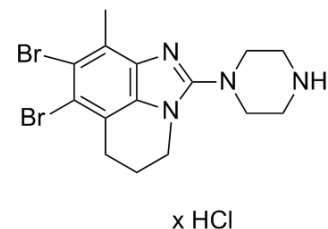


SEL120-34A HCl

Cat. No.:	HY-111388B		
CAS No.:	1609452-30-3		
Molecular Formula:	C ₁₅ H ₁₈ Br ₂ N ₄ .xHCl		
Target:	CDK		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (Need ultrasonic)
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.08 mg/mL (Infinity mM); Clear solution; Need warming

BIOLOGICAL ACTIVITY

Description	SEL120-34A HCl is a potent, selective, orally available, ATP-competitive CDK8 inhibitor, with IC ₅₀ s of 4.4 nM and 10.4 nM for CDK8/CycC and CDK19/CycC, respectively, with antitumor activity.		
IC₅₀ & Target	CDK8/CycC 4.4 nM (IC ₅₀)	CDK19/CycC 10.4 nM (IC ₅₀)	CDK9/cycT 1070 nM (IC ₅₀)
In Vitro	<p>SEL120-34A HCl is a selective, ATP-competitive CDK8 inhibitor, with IC₅₀ of 4.4 nM and 10.4 nM for CDK8/CycC and CDK19/CycC, respectively. SEL120-34A HCl shows no obvious inhibition on CDK1, 2, 4, 6, 5, 7, and only weakly suppresses CDK9 (IC₅₀, 1070 nM). SEL120-34A HCl is active against a panel of AML cell lines (GI₅₀<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^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		
In Vivo	<p>SEL120-34A (30, 60 mg/kg, p.o.) inhibits the growth of tumor in mice bearing MV4-11 cancer cells, and also arrests the growth of KG-1-derived tumors at 30 mg/kg via oral administration^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		

CUSTOMER VALIDATION

- Cell. 2021 Apr 15;184(8):2167-2182.e22.
- Nat Commun. 2019 Oct 18;10(1):4741.

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REFERENCES

[1]. Rzymiski 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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