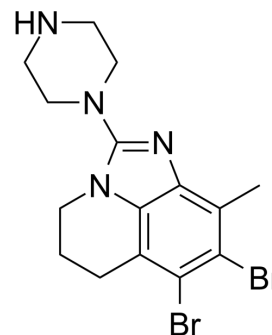


SEL120-34A

Cat. No.:	HY-111388
CAS No.:	1609522-33-9
Molecular Formula:	C ₁₅ H ₁₈ Br ₂ N ₄
Molecular Weight:	414.14
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SEL120-34A 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	SEL120-34A is a selective, ATP-competitive CDK8 inhibitor, with IC ₅₀ of 4.4 nM and 10.4 nM for CDK8/CycC and CDK19/CycC, respectively. SEL120-34A shows no obvious inhibition on CDK1, 2, 4, 6, 5, 7, and only weakly suppresses CDK9 (IC ₅₀ , 1070 nM). SEL120-34A 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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

CUSTOMER VALIDATION

- Cell. 2021 Apr 15;184(8):2167-2182.e22.
- Nat Commun. 2019 Oct 18;10(1):4741.
- Int J Mol Sci. 2022 Feb 24;23(5):2493.

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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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