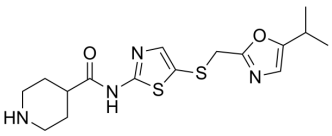
CAF-382

Cat. No.:	HY-155805
Molecular Formula:	$C_{16}H_{22}N_4O_2S_2$
Molecular Weight:	366.5
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CAF-382 (compound B1) is an analog of SNS-032 and a CDKL5 and pan-CDK inhibitor with a weak GSK3α/β affinity (>1.8 μM) and inhibitory activity. CAF-382 inhibits CDKL5 and blocks the phosphorylation of the CDKL5 E2 domain[1].
IC_{50} & Target	IC50: ≤100 nM (CDK9, PCTK1/CDK16, PCTK2/CDK17, PCTK3/CDK18), 2.1-2.7 μM (CDKL3, CDKL4)[1]
In Vitro	CAF-382 (compound B1) (5 nM-5 μM) causes a significant reduction in pSer222 EB2 at 5 nM without a change in total EB2 levels[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Castano A, et al. Discovery and characterization of a specific inhibitor of serine-threonine kinase cyclin-dependent kinase-like 5 (CDKL5) demonstrates role in hippocampal CA1 physiology. Elife. 2023 Jul 25;12:e88206.

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