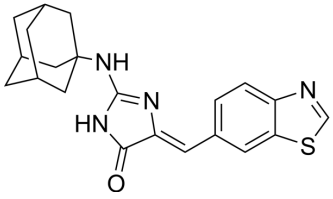
Leucettinib-92

Cat. No.:	HY-155723
CAS No.:	2732859-57-1
Molecular Formula:	$C_{21}H_{22}N_4OS$
Molecular Weight:	378.49
Target:	CDK; DYRK
Pathway:	Cell Cycle/DNA Damage; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Leucettinib-92 (compound 92) is an inhibitor of DYRK/CLK kinase, The IC_{50}s are 147 nM (CLK1), 39 nM (CLK2), 5.2 nM (CLK4), 0.8 μM (CLK3), 124 nM (DYRK1A), 204 nM (DYRK1B), 0.16 μM (DYRK2), respectively. 1.0 μM (DYRK3), 0.52 μM (DYRK4), 2.78 μM (GSK3)[1].
IC_{50} & Target	IC50: 147 nM (CLK1), 39 nM (CLK2), 5.2 nM (CLK4), 0.8 μM (CLK3), 124 nM (DYRK1A), 204 nM (DYRK1B), 0.16 μM (DYRK2), 1.0 μM (DYRK3), 0.52 μM (DYRK4), 2.78 μM (GSK3)[1]
In Vitro	Leucettinib-92 (0.1-10 μM; 3 min) binds to DYRK1A in SH-SY5Y cells and induces it to stabilize until melting temperature above 52°C. Leucettinib-92 (1 μM) inhibits phosphorylation of two DYRK1A substrates (Thr212-Tau and Thr286-cyclin D1)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Deau E, et al. Leucettinibs, a Class of DYRK/CLK Kinase Inhibitors Inspired by the Marine Sponge Natural Product Leucettamine B. J Med Chem. 2023 Aug 10;66(15):10694-10714.

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