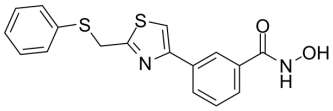
HDAC8-IN-4

Cat. No.:	HY-153583
CAS No.:	1600528-05-9
Molecular Formula:	$C_{17}H_{14}N_2O_2S_2$
Molecular Weight:	342.44
Target:	HDAC
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HDAC8-IN-4 is a selective inhibitor of HDAC8. HDAC8-IN-4 inhibits HDAC8 and HDAC3 with IC_{50}s of 0.15 and 12 μM[1].

IC_{50} & Target	HDAC8	HDAC3
	0.15 μM (IC_{50})	12 μM (IC_{50})

In Vitro

HDAC8-IN-4 (Compound 9) (1 to 100 μM, 5-6 days) inhibits HDAC8 protein level in HeLa cells[1].

HDAC8-IN-4 (0-50 μM approximately, 72 h) inhibits T-cell lymphoma cells (Jurkat, HH, MT4, HUT78 cells) growth[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	Jurkat, HH, MT4, HUT78 cells
Concentration:	0-50 μM approximately
Incubation Time:	72 h
Result:	Inhibited cell growth with IC_{50}s of 2, 7.4, 5.8, 27 μM).

Western Blot Analysis[1]

Cell Line:	HeLa cells
Concentration:	0-40 μM
Incubation Time:	4 h
Result:	Selectively inhibited HDAC8 over other HDACs in cells.

REFERENCES

[1]. Suzuki T, et al. Design, synthesis, and biological activity of NCC149 derivatives as histone deacetylase 8-selective inhibitors. ChemMedChem. 2014 Mar;9(3):657-64.

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

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