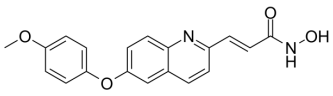
HDAC6-IN-11

Cat. No.:	HY-150694
CAS No.:	2409072-27-9
Molecular Formula:	$C_{19}H_{16}N_2O_4$
Molecular Weight:	336.34
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

HDAC6-IN-11 (Compound 9) is a selective HDAC6 inhibitor with the IC_{50} value of 20.7 nM. HDAC6-IN-11 has more than 300-fold selectivity over HDAC other isoforms. HDAC6-IN-11 shows anti-proliferative activities against cancer cells[1].

IC_{50} & Target

HDAC6	HDAC8
20.7 nM (IC_{50})	7750 nM (IC_{50})

In Vitro

HDAC6-IN-11 (0.44-6.68 μM, 48 h) treatment shows anti-proliferative activities against A549 and HCT116 cells[1].
HDAC6-IN-11 (0-20 μM, 48 h) treatment can increase the acetylation status of H3 and tubulin[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	A549 and HCT116 cells
Concentration:	0.44-6.68 μM
Incubation Time:	48 hours
Result:	Showed anti-proliferative activities to A549 and HCT116 cells (GI_{50}=3.2 and 1.82 μM, respectively).

Western Blot Analysis[1]

Cell Line:	HCT116 cells
Concentration:	0, 0.6, 1.25, 2.5, 5, 10 and 20 μM
Incubation Time:	48 hours
Result:	Led to the increase of acetylation status of H3 and tubulin in a dose-dependent manner, and upregulated acetylated tubulin.

REFERENCES

[1]. Shih-Wei Wang, et al. Synthesis and biological evaluation of 2-quinolineacrylamides. Bioorg Med Chem. 2020 Feb 1;28(3):115250.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA