Inhibitors



Product Data Sheet

HDAC6-IN-14

Cat. No.: HY-151896

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-14 is a highly selective HDAC6 (HDAC) inhibitor with an IC₅₀ of 42 nM. HDAC6-IN-14 displays >100-fold selectivity

over HDAC1/HDAC2/HDAC3/HDAC4 $^{[1]}$.

IC₅₀ & Target HDAC6 HDAC1 HDAC2 HDAC3

42 nM (IC₅₀) 8.01 μ M (IC₅₀) 4.48 μ M (IC₅₀) 8.35 μ M (IC₅₀)

HDAC4 >10 μM (IC₅₀)

In Vitro HDAC6-IN-14 (compound 10p; 1-5 μM; 48 h) treatment results in a significant apoptosis induction in HL60 cells^[1].

HDAC6-IN-14 (compound 10p; 6-36 μ M; 24 h) treatment induces acetylation of α -tubulin but has no effect on Ac-H3 levels even at concentrations of \leq 36 μ M in HL60 cells^[1].

 ${\tt MCE}\ has\ not\ independently\ confirmed\ the\ accuracy\ of\ these\ methods.\ They\ are\ for\ reference\ only.$

Apoptosis Analysis^[1]

Cell Line:	HL60 cells
Concentration:	1 μM and 5 μM
Incubation Time:	48 h
Result:	Resulted in a significant apoptosis induction.

Western Blot Analysis^[1]

Cell Line:	HL60 cells
Concentration:	6 μΜ, 12 μΜ, 24 μΜ, 36 μΜ
Incubation Time:	24 h
Result:	Induced acetylation of α -tubulin but had no effect on Ac-H3 levels.

REFERENCES



Page 2 of 2 www.MedChemExpress.com