HDAC6-IN-36

Cat. No.: HY-162330

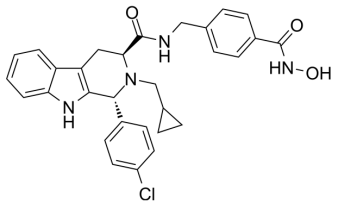
Molecular Formula: $C_{30}H_{29}ClN_4O_3$

Molecular Weight: 529.03

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-36 (compound 11d) is an inhibitor of HDAC6 with IC_{50} value of 8.64 nM. HDAC6-IN-36 induces neurite outgrowth of PC12 cells without producing toxic effects.

IC_{50} & Target

HDAC1	HDAC6
1284 nM (IC_{50})	8.64 nM (IC_{50})

In Vitro

HDAC6-IN-36 (1 μM, 24 h) increases the acetylation level of histone H3 and α-tubulin in the PC12 cell line.
HDAC6-IN-36 (1-10 μM, 48 h) stimulates neurite outgrowth induced by NGF (20 ng/mL) in PC12 cells.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	PC12 cell
Concentration:	0.1, 0.5 and 1 μM
Incubation Time:	24 h
Result:	Increased the acetylation level of α-tubulin in a dose-dependent manner.

REFERENCES

[1]. Wen Wen , et al. Re-exploration of tetrahydro-β-carboline scaffold: Discovery of selective histone deacetylase 6 inhibitors with neurite outgrowth-promoting and neuroprotective activities. Bioorg Med Chem Lett. 2024.

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