

Product Name	: MC2590
Synonyms	: —
Cat No.	: M36538
CAS Number	: 2284460-01-9
Molecular Formula	: C ₂₀ H ₁₇ N ₃ O ₃
Formula Weight	: 347.37
Chemical Name	: —
Description	MC2590 is a potent pyridine-containing histone deacetylase (HDAC) inhibitor. MC2590 is a inhibitor of HDAC1-3, -6, -8, and -10 (class I/IIb-selective inhibitor) with IC ₅₀ s of 0.015 μM-0.156 μM. MC2590 also inhibits HDAC isoforms HDAC4, HDAC5, HDAC7, HDAC9, HDAC11 with IC ₅₀ s of 1.35 μM-3.98 μM. MC2625 induces G2/M cell cycle arrest and modulates pro- and anti-apoptotic microRNAs towards apoptosis induction.
Pathway	: Cell Cycle/DNA Damage
Target	: HDAC
Receptor	: HDAC Apoptosis
Solubility	: —
SMILES	: <chem>O=C(C(=O)N1C=CC(C(=O)N1)=O)C=CC2=C(C=CC2)C=CC=C3</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Elisabetta Di Bello, et al. Novel pyridine-containing histone deacetylase inhibitors strongly arrest proliferation, induce apoptosis and modulate miRNAs in cancer cells. Eur J Med Chem. 2022 Dec 15;247:115022.?