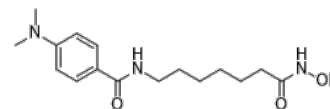


Product Name : M344
Cat. No. : PC-28357
CAS No. : 251456-60-7
Molecular Formula : C₁₆H₂₅N₃O₃
Molecular Weight : 307.39
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

M344 (D237) is a small molecule inhibitor of **histone deacetylase (HDAC)** (IC₅₀=100 nM) and an inducer of terminal cell differentiation in Friend leukemic cells.

M344 significantly increases SMN2 RNA/protein levels in spinal muscular atrophy cells.

M344 is a potent activator of NF-kappaB transcription factor, increases IL-1 expression yet markedly decreases TNF-alpha expression.

M344 induces ATF3 expression at the protein and mRNA level in a panel of human derived cancer cell lines.

References

Kyrylenko S, et al. *Cell Mol Life Sci.* 2003 Sep;60(9):1990-7.

Riessland M, et al. *Hum Genet.* 2006 Aug;120(1):101-10.

Jung M1, et al. *J Med Chem.* 1999 Nov 4;42(22):4669-79.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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