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DATASHEET

MC 1568

Product overview

Name	MC 1568
Cat No	HB1390
Biological action	Inhibitor
Purity	>96%
Description	Selective class IIa HDAC inhibitor

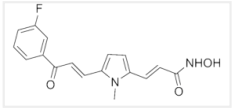
Biological Data

Biological description	Selective class IIa histone deacetylase (HDAC) inhibitor. Inhibits HDAC4 and HDAC5 in the heart and skeletal muscle and suppresses myogenesis. Also inhibits IL-8 expression and promotes neurite growth. Shows neuroprotective, anti-proliferative and anti-cancer actions. Blood-brain barrier permeable.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	3-[5-(3-(3-Fluorophenyl)-3-oxoprope n-1-yl)-1-methyl-1*H*-pyrrol-2-yl]-*N*-hydroxy-2-prope namide
Molecular Weight	314.31
Chemical structure	
Molecular Formula	$C_{17}H_{15}FN_2O_3$
CAS Number	852475-26-4
PubChem identifier	11381449
SMILES	CN1C=C(/C=C/C(C2=CC(F)=CC=C2)=O)C=C1/C=C/C(NO)=O
InChiKey	QRDAPCMJAOQZSU-KQQUZDAGSA-N

References

Class II-specific histone deacetylase inhibitors MC1568 and MC1575 suppress IL-8 expression in human melanoma cells.

Venza I *et al* (2013) Pigment Cell Melanoma Res 26(2)
PubMedID 23176534

Class-IIa Histone Deacetylase Inhibition Promotes the Growth of Neural Processes and Protects Them Against Neurotoxic Insult.

Collins LM *et al* (2014) Mol Neurobiol

PubMedID 25065734

Selective class II HDAC inhibitors impair myogenesis by modulating the stability and activity of HDAC-MEF2 complexes.

Nebbioso A *et al* (2009) EMBO Rep 10(7)
PubMedID 19498465