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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 |

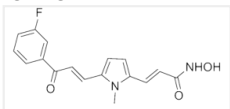
Biological Data

| | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

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|---------------------------|---------------------------------------------------------------------------------------------|
| Chemical name | 3-[5-(3-(3-Fluorophenyl)-3-oxopropen-1-yl)-1-methyl-1H-pyrrol-2-yl]-N-hydroxy-2-propanamide |
| Molecular Weight | 314.31 |
| Chemical structure |  |
| Molecular Formula | C ₁₇ H ₁₅ FN ₂ O 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(=O)NO |
| 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
