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- Gefahrgutzuschlag
- Expressversand

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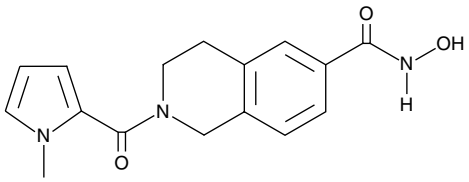
Product Information

HDAC6 Inhibitor

Item No. 15200

CAS Registry No.: 1259296-46-2
Formal Name: 1,2,3,4-tetrahydro-N-hydroxy-2-[(1-methyl-1H-pyrrol-2-yl)carbonyl]-6-isoquinolinecarboxamide
Synonym: Histone Deacetylase 6
MF: $C_{16}H_{17}N_3O_3$
FW: 299.30
Purity: ≥95%
Stability: ≥1 year at -20°C
Supplied as: A solution in acetonitrile



Laboratory Procedures

For long term storage, we suggest that HDAC6 inhibitor be stored as supplied at -20°C. It should be stable for at least one year.

HDAC6 inhibitor is supplied as a solution in acetonitrile. To change the solvent, simply evaporate the HDAC6 inhibitor under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of HDAC6 inhibitor in these solvents is approximately 30 mg/ml.

HDAC6 inhibitor is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

HDAC6 is a predominantly cytoplasmic enzyme that targets α-tubulin, cortactin, and heat shock protein 90, as well as other substrates.[1] In this way, it impacts development, proliferation, invasion, and tumorigenesis.[1] HDAC6 inhibitor is a potent and selective inhibitor of HDAC6 (IC_{50} = 36 nM) that poorly blocks other HDAC enzymes.[2] It is cell permeable, inhibiting the acetylation of tubulin in cells with an IC_{50} value of 210 nM.[2]

References

1. Yang, P.H., Zhang, L., Zhang, Y.J., *et al.* HDAC6: Physiological function and its selective inhibitors for cancer treatment. *Drug Discov. Ther.* **7(6)**, 233-242 (2013).
2. Blackburn, C., Barrett, C., Chin, J., *et al.* Potent histone deacetylase inhibitors derived from 4-(aminomethyl)-N-hydroxybenzamide with high selectivity for the HDAC6 isoform. *J. Med. Chem.* **56(18)**, 7201-7211 (2013).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15200

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