# PRODUCT INFORMATION

## HDAC8-IN-1

*Item No. 28832*

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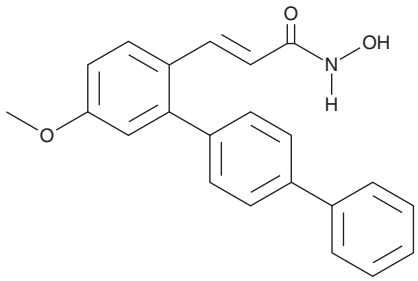
|---|---|
| **CAS Registry No.:** | 1417997-93-3 |
| **Formal Name:** | (2E)-N-hydroxy-3-(5-methoxy[1,1′:4′,1′′-terphenyl]-2-yl)-2-propenamide |
| **Synonym:** | MDK-7933 |
| **MF:** | $C_{22}H_{19}NO_3$ |
| **FW:** | 345.4 |
| **Purity:** | ≥98% |
| **Supplied as:** | A solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

HDAC8-IN-1 is supplied as a solid. A stock solution may be made by dissolving the HDAC8-IN-1 in the solvent of choice, which should be purged with an inert gas. HDAC8-IN-1 is soluble in the organic solvent DMSO.

### Description

HDAC8-IN-1 is an inhibitor of histone deacetylase 8 (HDAC8; $IC_{50}$ = 27.2 nM).[1] It is selective for HDAC8 over HDAC1-3, -4, -6, -10, and -11 ($IC_{50}$s = ≥3,000 nM for all). HDAC8-IN-1 is cytotoxic to A549, H1299, and CL1-5 lung cancer cells ($IC_{50}$s = 7.9, 7.2, and 7 µM, respectively).

### Reference


1. Huang, W.-J., Wang, Y.-C., Chao, S.-W., *et al.* Synthesis and biological evaluation of *ortho*-aryl *N*-hydroxycinnamides as potent histone deacetylase (HDAC) 8 isoform-selective inhibitors. *ChemMedChem* **7(10)**, 1815-1824 (2012).





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