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# Produktinformation

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- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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Data Sheet

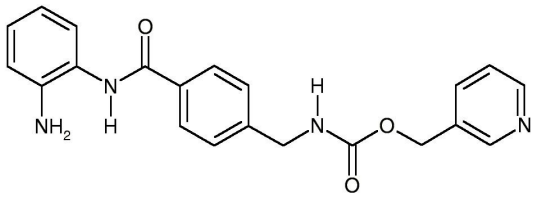
# MS-275 (Entinostat)

**Catalog #:** 27011

**Lot #:** 150715

**Size:** 25 mg

**Structure:**



**CAS Registry #:** 209783-80-2

**Purity:** ≥99%

**Chemical Formula:** $C_{21}H_{20}N_4O_3$

**Molecular Weight:** 376.41

**Description:** MS-275, also known as Entinostat, is an inhibitor of histone deacetylases (HDACs) and preferentially inhibits HDAC1 over HDAC3. It does not inhibit HDAC8 ($IC_{50}$ > 100 µM). It induces cyclin-dependent kinase inhibitor 1A (p21/CIP1/WAF1), slowing cell growth, differentiation, and tumor development *in vivo.* Recent studies suggest that MS-275 may be particularly useful as an antineoplastic agent when combined with other drugs like adriamycin, inhibitors of PARPs, or inhibitors of Hsp90.

**Appearance:** White to off-white crystalline solid

**Solubility:** Soluble in DMSO at 25 mg/ml with slight warming. MS-275 is poorly soluble in ethanol and water.

**Biological Activity:** MS-275 inhibits HDAC1 with an $IC_{50}$ of 300 nM and HDAC3 with an $IC_{50}$ value of 8 µM.

**Storage/Stability:** Store at or below -20°C.

**Quality Control:** The purity was determined by HPLC analysis.

**References:**


1. Hu., E. *et al., J. Pharmacol. Exp. Ther.* 2003; **307**: 720-728.
2. Saito, A., *et al., Proc. Natl. Acad. Sci. USA* 1999; **96**: 4592-4597.
3. Jaboin, J., *et al., Cancer Res.* 2002; **62**: 6108-6115.
4. Xu, J. *et al., Cancer Res.* 2008; **(68)16**: 6718 – 6726.
5. Gaymes, T.J., *et al., Haematologica* 2009; **94**: 638-646.

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