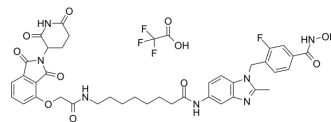


HDAC6 degrader-3

| | |
|--------------------|--|
| Cat. No.: | HY-152134 |
| CAS No.: | 2785404-83-1 |
| Molecular Formula: | C ₄₁ H ₄₁ F ₄ N ₇ O ₁₁ |
| Molecular Weight: | 883.8 |
| Target: | HDAC; PROTACs |
| Pathway: | Cell Cycle/DNA Damage; Epigenetics; PROTAC |
| Storage: | -20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



SOLVENT & SOLUBILITY

| | | | | | |
|---|--|------------------------------|-----------|-----------|------------|
| In Vitro | DMSO : 100 mg/mL (113.15 mM; Need ultrasonic) | | | | |
| | Preparing Stock Solutions | Solvent Concentration \ Mass | 1 mg | 5 mg | 10 mg |
| | | 1 mM | 1.1315 mL | 5.6574 mL | 11.3148 mL |
| | | 5 mM | 0.2263 mL | 1.1315 mL | 2.2630 mL |
| | 10 mM | 0.1131 mL | 0.5657 mL | 1.1315 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.83 mM); Clear solution | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.83 mM); Clear solution | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.83 mM); Clear solution | | | | |

BIOLOGICAL ACTIVITY

| | | | | |
|---------------------------|---|--------------------------------------|---------------------------------------|----------|
| Description | HDAC6 degrader-3 is a potent and selective HDAC6 degrader via ternary complex formation and the ubiquitin-proteasome pathway with a DC ₅₀ value of 19.4 nM. HDAC6 degrader-3 has IC ₅₀ s of 4.54 nM and 0.647 μM for HDAC6 and HDAC1, respectively. HDAC6 degrader-3 causes strong hyperacetylation of α-tubulin ^[1] . | | | |
| IC ₅₀ & Target | HDAC6 19.4 nM (ID50) | HDAC6 4.54 nM (IC ₅₀) | HDAC1 0.647 μM (IC ₅₀) | Cereblon |
| In Vitro | HDAC6 degrader-3 (compound B4; 100-1000 nM; 24 h) demonstrates potent HDAC6 degradation as well as hyperacetylation of α-tubulin ^[1] . | | | |

HDAC6 degrader-3 (0.5-50 μ M; 72 h) does not display any inhibitory effects on the cellular viability of leukemic cell lines (697, HL-60, KASUMI-1, MV4-11, REH, THP-1, SKNO-1, MOLM-13)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

| | |
|------------------|---|
| Cell Line: | U266 multiple myeloma cell line |
| Concentration: | 100 nM and 1000 nM |
| Incubation Time: | 24 h |
| Result: | Demonstrated potent HDAC6 degradation as well as hyperacetylation of α -tubulin. |

REFERENCES

[1]. Laura Sinatra, et al. Solid-Phase Synthesis of Cereblon-Recruiting Selective Histone Deacetylase 6 Degraders (HDAC6 PROTACs) with Antileukemic Activity. J Med Chem. 2022 Dec 22;65(24):16860-16878.

Caution: Product has not been fully validated for medical applications. For research use only.

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