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Product Data Sheet

NH

Corin

| Cat. No.: | HY-111048 | |
|--------------------|--|------------------|
| CAS No.: | 1808113-09-8 | |
| Molecular Formula: | $C_{26}H_{28}N_{4}O_{2}$ | |
| Molecular Weight: | 428.53 | H₂N [‴] |
| Target: | Histone Demethylase; HDAC | |
| Pathway: | Epigenetics; Cell Cycle/DNA Damage | |
| Storage: | 4°C, stored under nitrogen | |
| | * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen) | |

SOLVENT & SOLUBILITY

| In Vitro | DMSO : 100 mg/mL (233.36 mM; Need ultrasonic) | | | | | |
|----------|---|---|--------------------|-----------------|------------|--|
| | Preparing Stock Solutions | Mass Solvent Concentration | 1 mg | 5 mg | 10 mg | |
| | | 1 mM | 2.3336 mL | 11.6678 mL | 23.3356 mL | |
| | | 5 mM | 0.4667 mL | 2.3336 mL | 4.6671 mL | |
| | | 10 mM | 0.2334 mL | 1.1668 mL | 2.3336 mL | |
| | Please refer to the so | lubility information to select the app | propriate solvent. | | | |
| In Vivo | | one by one: 10% DMSO >> 40% PEC g/mL (5.83 mM); Clear solution | G300 >> 5% Tween-8 | 0 >> 45% saline | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.83 mM); Clear solution | | | | | |

| BIOLOGICAL ACTIV | |
|---------------------------|--|
| Description | Corin is a dual inhibitor of histone lysine specific demethylase (LSD1) and histone deacetylase (HDAC), with a K _i (inact) of 110 nM for LSD1 and an IC ₅₀ of 147 nM for HDAC1. |
| IC ₅₀ & Target | IC50: 147 nM (HDAC1), Ki(inact): 110 nM (LSD1) ^[1] . |
| In Vitro | Corin is able to inhibit the deacetylation of semisynthetic, reconstituted nucleosomes by the CoREST ternary complex. Corin shows irreversible inhibition of HDAC1 activity. In Comparison to MS-275, corin appears to more potently (Corin EC ₅₀ 95 nM vs. MS-275 EC ₅₀ 420 nM) and efficaciously induce cellular H3K9 acetylation. Interestingly, Corin (1 μM) is non-toxic to primary human melanocytes in contrast to MS-275 (1 μM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

CUSTOMER VALIDATION

• Nat Struct Mol Biol. 2022 Nov 7.

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REFERENCES

[1]. Kalin JH, et al. Targeting the CoREST complex with dual histone deacetylase and demethylase inhibitors. Nat Commun. 2018 Jan 4;9(1):53.

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

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