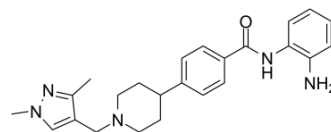


## CXD101

|                    |  |       |          |
|--------------------|--|-------|----------|
| Cat. No.:          | HY-100748  |       |          |
| CAS No.:           | 934828-12-3                                      |       |          |
| Molecular Formula: | C <sub>24</sub> H <sub>29</sub> N <sub>5</sub> O |       |          |
| Molecular Weight:  | 403.52   |       |          |
| Target:            | HDAC   |       |          |
| Pathway:           | Cell Cycle/DNA Damage; Epigenetics               |       |          |
| Storage:           | Powder   | -20°C | 3 years  |
|                    |  | 4°C   | 2 years  |
|                    | In solvent                                       | -80°C | 6 months |
|                    |  | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO :  $\geq 31$  mg/mL (76.82 mM)

\* " $\geq$ " means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent       | Mass | 1 mg      | 5 mg       | 10 mg      |
|---------------------------|---------------|------|-----------|------------|------------|
|                           | Concentration |      |           |            |            |
|                           | 1 mM          |      | 2.4782 mL | 12.3910 mL | 24.7819 mL |
|                           | 5 mM          |      | 0.4956 mL | 2.4782 mL  | 4.9564 mL  |
|                           | 10 mM         |      | 0.2478 mL | 1.2391 mL  | 2.4782 mL  |

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

CXD101 is a class I-selective HDAC inhibitor (HDAC1 (IC<sub>50</sub>, 63 nM), HDAC2 (IC<sub>50</sub>, 570 nM), HDAC3 (IC<sub>50</sub>, 550 nM). CXD101 has no activity against HDAC class II<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

|                                    |                                     |                                     |
|------------------------------------|-------------------------------------|-------------------------------------|
| HDAC1<br>63 nM (IC <sub>50</sub> ) | HDAC3<br>550 nM (IC <sub>50</sub> ) | HDAC2<br>570 nM (IC <sub>50</sub> ) |
|------------------------------------|-------------------------------------|-------------------------------------|

### REFERENCES

[1]. Eyre TA, et al. Predictive biomarkers for disease sensitivity in lymphoma - the holy grail for HDAC inhibitors? Oncotarget. 2018 Dec 18;9(99):37280-37281.

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

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