Creative Enzymes®

# CUDC-101

*Cat. No. CEI-0982*

*Lot. No.* (See product label)

## Introduction

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| ***Description*** | CUDC-101 is a potent inhibitor of histone deacetylase (HDAC) and the receptor kinases epidermal growth factor receptor (EGFR) and human epidermal growth factor receptor 2 (HER2), with IC50 values of 4.4, 2.4, and 15.7 nM, respectively. It inhibted EGFR and Her2 phosphorylation, reduced cell proliferation and induced apoptosis in HCC827 non-small cell lung cancer (NSCLC) xenografts. CUDC-101 inhibited EGFR and induced upregulation of acetylated histone H3 in a dose-dependent fashion. |

## Product Information

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| ***Appearance*** | White solid. |
| ***CAS No.*** | 1012054-59-9 |
| ***Molecular Formula*** | C24H26N4O4 |
| ***Molecular Weight*** | 434.5 Da |
| ***Purity*** | >99% |
| ***Targets*** | HDAC, EGFR, HER2 |
| ***IC50*** | HDAC、EGFR、HER2： 4.4, 2.4, and 15.7 nM respectively |
| ***Solubility*** | Soluble in DMSO at 28 mg/ml; very poorly soluble in ethanol; very poorly soluble in water; maximum solubility in plain water is estimated to be about 20-50 μM; buffers, serum, or other additives may increase or decrease the aqueous solubility. |

## Storage and Shipping Information

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| ***Stability*** | Store at or below –20°C. Solid form is stable at least 12 months from date of receipt, when stored as directed. Do not store aqueous solutions for more than one day. |