

## CUDC-101

Cat. No. CEI-0982

Lot. No. (See product label)

### Introduction

**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 inhibited 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

**Appearance** White solid.

**CAS No.** 1012054-59-9

**Molecular Formula** C<sub>24</sub>H<sub>26</sub>N<sub>4</sub>O<sub>4</sub>

**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

**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.