

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 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

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.