Creative Enzymes®

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 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

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.