

YD277

Chemical Properties

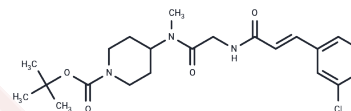
CAS No. :

Formula: C₂₂H₃₀ClN₃O₄

Molecular Weight: 435.95

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	YD277 is a small molecule derived from ML264, a KLF5 inhibitor that elicits cytotoxic effects in colon cancer cell lines. YD277 significantly induced G1 cell cycle arrest and apoptosis in MDA-MB-231 and MDA-MB-468 TNBC cells, independent of KLF5 inhibition. YD277 also reduced the protein expression levels of Cyclin D1, Bcl2 and Bclxl and promoted the expression of p21 and p27. YD277 (15 mg/kg) significantly suppressed the growth of MDA-MB-231 tumor xenografts in nude mice.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2938 mL	11.4692 mL	22.9384 mL
5 mM	0.4588 mL	2.2938 mL	4.5877 mL
10 mM	0.2294 mL	1.1469 mL	2.2938 mL
50 mM	0.0459 mL	0.2294 mL	0.4588 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chen Z, Wu Q, Ding Y, Zhou W, Liu R, Chen H, Zhou J, Feng J, Chen C. YD277 Suppresses Triple-Negative Breast Cancer Partially Through Activating the Endoplasmic Reticulum Stress Pathway. *Theranostics*. 2017 Jun 11;7(8): 2339-2349. doi: 10.7150/thno.17555. eCollection 2017. PubMed PMID: 28740556; PubMed Central PMCID: PMC5505065.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481