

TD-428

Chemical Properties

CAS No. :

Formula: C₄₃H₄₃ClN₁₀O₇S

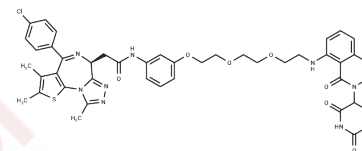
Molecular Weight: 879.38

Keep away from direct sunlight

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	TD-428 is a highly specific degrader of BRD4 (IC ₅₀ of 0.32 nM). TD-428 is a BET PROTAC, which comprises TD-106 (a CRBN ligand) linked to JQ1 (a BET inhibitor). TD-428 efficiently induce BET protein degradation.
Targets(IC ₅₀)	Epigenetic Reader Domain, PROTACs
In vitro	TD-428 comprises TD-106 linked to a BET inhibitor, JQ1 efficiently induce BET protein degradation in the prostate cancer cell line 22Rv1. the proliferation of 22RV1 cells (IC ₅₀ of 20.1 nM) inhibited by TD-428. TD-428 (1 nM-10 μM; 12 hours) induces the degradation of BRD4, IKZF1, and IKZF3 proteins.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1372 mL	5.6858 mL	11.3716 mL
5 mM	0.2274 mL	1.1372 mL	2.2743 mL
10 mM	0.1137 mL	0.5686 mL	1.1372 mL
50 mM	0.0227 mL	0.1137 mL	0.2274 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

Kim SA, et al. A novel cereblon modulator for targeted protein degradation. Eur J Med Chem. 2019 Mar 15;166:65-74.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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