

FT827

Chemical Properties

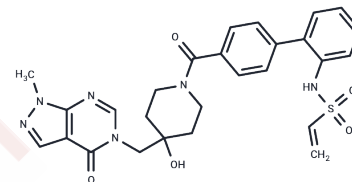
CAS No. : 1959537-86-0

Formula: C₂₇H₂₈N₆O₅S

Molecular Weight: 548.61

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	FT827 is a covalent inhibitor of selective ubiquitin-specific protease 7 (USP7) (K _i =4.2 μM, K _d =7.8 μM) targeting the catalytic center of the autoinhibitory apolipoprotein form of USP7 for cancer research.
Targets(IC ₅₀)	DUB
In vitro	After incubating MCF7 cell extracts with DMSO, 1 μM or 10 μM of FT671, FT827, or 50 μM of P22077 for 60 minutes, the results demonstrated the target-specific engagement of USP7 in MCF7 cells[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (145.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8228 mL	9.1139 mL	18.2279 mL
5 mM	0.3646 mL	1.8228 mL	3.6456 mL
10 mM	0.1823 mL	0.9114 mL	1.8228 mL
50 mM	0.0365 mL	0.1823 mL	0.3646 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

Turnbull AP, et al. Molecular basis of USP7 inhibition by selective small-molecule inhibitors. Nature. 2017 Oct 26; 550(7677):481-486.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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