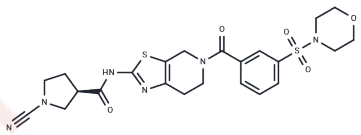
Data Sheet (Cat.No.T209973)

TargetMol

JYQ-164

Chemical Properties



CAS No. :

Formula: C23H26N6O5S2

Molecular Weight: 530.62

Storage: Store at low temperature
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	JYQ-164 is a small-molecule inhibitor targeting human Parkinson's disease protein 7 (PARK7/DJ-1) with an IC_{50} value of 21 nM. It exerts its inhibitory effect by covalently and selectively targeting the key residue Cys106 of PARK7, and its inhibitory activity against PARK7 is approximately 5-fold higher than that of the previously reported inhibitor JYQ-88. JYQ-164 can be used in studies related to the mechanisms of Parkinson's disease and cancer .
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 40.00 mg/mL (75.38 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8846 mL	9.4229 mL	18.8459 mL
5 mM	0.3769 mL	1.8846 mL	3.7692 mL
10 mM	0.1885 mL	0.9423 mL	1.8846 mL
50 mM	0.0377 mL	0.1885 mL	0.3769 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

Jia Y, et al. Development of Inhibitors, Probes, and PROTAC Provides a Complete Toolbox to Study PARK7 in the Living Cell[J]. Journal of Medicinal Chemistry, 2024.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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