

BKIDC-1553

Chemical Properties

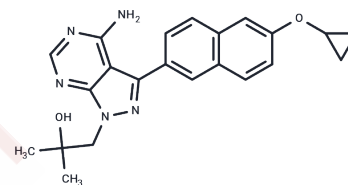
CAS No. : 1951431-34-7

Formula: C₂₂H₂₃N₅O₂

Molecular Weight: 389.45

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	BKIDC-1553, an orally active antiglycolytic agent and bumped kinase inhibitor-derived compound, has a predicted half-life of approximately 17 hours in humans. It inhibits CYP2C8 and Angiotensin Converting Enzyme, making it suitable for cancer research [1].
Targets(IC50)	Angiotensin-converting Enzyme (ACE)
In vitro	BKIDC-1553 (1.25-20 μ M, 72 h) inhibits cell proliferation in various human prostate cancer cell lines in a dose-dependent manner [1].
In vivo	BKIDC-1553, administered orally at 20 mg/kg three times per week for four weeks, reduces tumor growth in LuCaP 35 patient-derived xenograft mice with human prostate cancer after five weeks [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5677 mL	12.8386 mL	25.6772 mL
5 mM	0.5135 mL	2.5677 mL	5.1354 mL
10 mM	0.2568 mL	1.2839 mL	2.5677 mL
50 mM	0.0514 mL	0.2568 mL	0.5135 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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