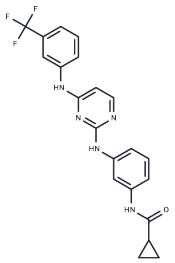
Data Sheet (Cat.No.T5524)

TargetMol

Aurora kinase inhibitor-3

Chemical Properties



CAS No. : 879127-16-9

Formula: C21H18F3N5O

Molecular Weight: 413.4

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	Aurora kinase inhibitor-3 (Aurora Kinase Inhibitor III) is a potent inhibitor of Aurora A kinase (IC50 = 42 nM).1 It is selective for Aurora A over BMX, BTK, IGF-1R, c-Src, TRKB, SYK, and EGFR.
Targets(IC50)	Aurora Kinase

Solubility Information

Solubility	DMSO: 50 mg/mL (120.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.84 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.419 mL	12.0948 mL	24.1896 mL
5 mM	0.4838 mL	2.419 mL	4.8379 mL
10 mM	0.2419 mL	1.2095 mL	2.419 mL
50 mM	0.0484 mL	0.2419 mL	0.4838 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

Zhang Q , Liu Y , Gao F , et al. Discovery of EGFR Selective 4,6-Disubstituted Pyrimidines from a Combinatorial Kinase-Directed Heterocycle Library[J]. Journal of the American Chemical Society, 2006, 128(7):2182-2183.
Tari L W , Hoffman I D , Bensen D C , et al. Structural basis for the inhibition of Aurora A kinase by a novel class of high affinity disubstituted pyrimidine inhibitors[J]. Bioorganic and Medicinal Chemistry Letters, 2007, 17(3):688-691.