Data Sheet (Cat.No.T9529)

TargetMol

TAK-020

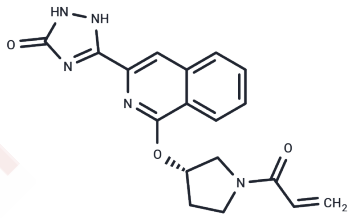
Chemical Properties

CAS No. : 1627603-21-7

Formula: C18H17N5O3

Molecular Weight: 351.36

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	TAK-020 is a potent covalent inhibitor of Btk with potential antitumor activity for the study of rheumatoid arthritis and immune-related diseases.
Targets(IC50)	BTK

Solubility Information

Solubility	DMSO: 20 mg/mL (56.92 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: 1 mg/mL (2.85 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	2.8461 mL	14.2304 mL	28.4608 mL
5 mM	0.5692 mL	2.8461 mL	5.6922 mL
10 mM	0.2846 mL	1.423 mL	2.8461 mL
50 mM	0.0569 mL	0.2846 mL	0.5692 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

Sabat M, et al. Discovery of the Bruton's Tyrosine Kinase Inhibitor Clinical Candidate TAK-020 (S)-5-(1-((1-Acryloylpyrrolidin-3-yl)oxy)isoquinolin-3-yl)-2,4-dihydro-3H-1,2,4-triazol-3-one, by Fragment-Based Drug Design. J Med Chem. 2021 Sep 9;64(17):12893-12902.

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