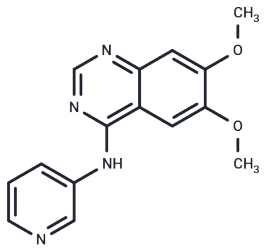
Data Sheet (Cat.No.T60542)

TargetMol

BTK-IN-16

Chemical Properties



CAS No. : 2883232-92-4

Formula: C15H14N4O2

Molecular Weight: 282.3

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	BTK-IN-16 is a potential inhibitor of wild-type BTK and C481S mutants.BTK-IN-16 can be used to study various autoimmune diseases and cancers caused by BTK.
Targets(IC50)	BTK
In vivo	Studies on a mouse model (xid, X-linked immunodeficiency) have revealed the central role of BTK in B-cell BCR signal transduction, differentiation, and survival [1]. Further experiments using BTK-IN-16 on mature B cells suggest the involvement of BTK in B-cell malignancies and models of autoimmune diseases [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5423 mL	17.7117 mL	35.4233 mL
5 mM	0.7085 mL	3.5423 mL	7.0847 mL
10 mM	0.3542 mL	1.7712 mL	3.5423 mL
50 mM	0.0708 mL	0.3542 mL	0.7085 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

García-Merino A. Bruton's Tyrosine Kinase Inhibitors: A New Generation of Promising Agents for Multiple Sclerosis Therapy. Cells. 2021 Sep 27;10(10):2560.

Kim T, et al. Two-Track Virtual Screening Approach to Identify the Dual Inhibitors of Wild Type and C481S Mutant of Bruton's Tyrosine Kinase. J Chem Inf Model. 2022 Aug 24.

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