

BTK-IN-34

Chemical Properties

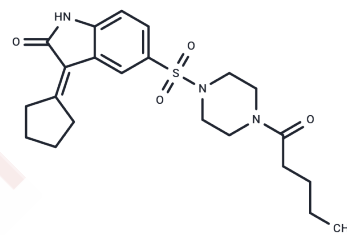
CAS No. : 3016419-52-3

Formula: C₂₂H₂₉N₃O₄S

Molecular Weight: 431.55

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-34 (compound 9h) functions as a selective BTK inhibitor, exhibiting antiproliferative effects in RAMOS cells by specifically targeting pBTK (Tyr223) while sparing upstream proteins such as Lyn and Syk in the BCR signaling pathway [1].
Targets(IC50)	BTK
In vitro	BTK-IN-34 (compound 9h; 1-50 μ M; 24 h) reduces levels of pBTK, pERK 1/2 (Thr202/Tyr204), and p-p38 (Thr180/Tyr182) in RAMOS cells [1]. This compound shows selective cytotoxicity towards BTK-high RAMOS cells with an IC ₅₀ of 2.75 μ M. Western Blot analysis was conducted on RAMOS cells with concentrations of 1 μ M, 10 μ M, and 50 μ M over a 24-hour incubation, resulting in decreased pBTK (Tyr223) levels.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3172 mL	11.5861 mL	23.1723 mL
5 mM	0.4634 mL	2.3172 mL	4.6345 mL
10 mM	0.2317 mL	1.1586 mL	2.3172 mL
50 mM	0.0463 mL	0.2317 mL	0.4634 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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