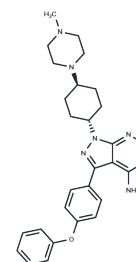


KIN-8194

## Chemical Properties

CAS No. : 330786-01-1  
 Formula: C<sub>28</sub>H<sub>33</sub>N<sub>7</sub>O  
 Molecular Weight: 483.61  
 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	KIN-8194 is a dual inhibitor of HCK and BTK, effective when administered orally, displaying IC <sub>50</sub> values of 0.915 nM for HCK and <0.495 nM for BTK. It inhibits growth and disrupts integrin-mediated adhesion in BTKi-resistant mantle cell lymphoma (MCL). Additionally, KIN-8194 has shown efficacy in overcoming ibrutinib resistance, enhancing survival in TMD-8 ABC DLBCL xenografted mice [1] [2].
Targets(IC <sub>50</sub> )	BTK,Src
In vitro	KIN-8194 (0-1 μM, 7 days) inhibits the growth of MCL cell lines (Maver-1, JeKo-1, Mino, Rec-1, and Granta-519) and primary cells [1]. It reduces proliferation in MCL cell lines by inhibiting HCK [1]. At 100 nM for 6 hours, KIN-8194 suppresses the AKT-S6 signaling pathway in Maver-1 and Granta-519 cells in an HCK-dependent manner [1]. Additionally, KIN-8194 (0-1 μM, 30 minutes) inhibits adhesion of MCL cells (JeKo-1 and Granta-519) to fibronectin or stromal cells in an HCK-dependent fashion [1].
In vivo	KIN-8194, administered orally at doses ranging from 12.5 to 50 mg/kg, dose-dependently inhibits pHCK and pBTK in MYD88-mutated TMD-8 ABC DLBCL xenograft mouse models. Additionally, a daily oral dose of 50 mg/kg over six weeks suppresses tumor growth in these models. Furthermore, a 30 mg/kg daily oral dose of KIN-8194 combined with Venetoclax extends median survival in ibrutinib-resistant BTK Cys481Ser TMD-8 cell xenograft mice [2].

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.0678 mL	10.3389 mL	20.6778 mL
5 mM	0.4136 mL	2.0678 mL	4.1356 mL
10 mM	0.2068 mL	1.0339 mL	2.0678 mL
50 mM	0.0414 mL	0.2068 mL	0.4136 mL

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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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