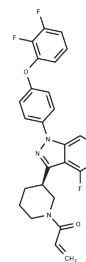


JDB175

## Chemical Properties

CAS No. : 2635328-79-7  
 Formula: C<sub>26</sub>H<sub>21</sub>F<sub>3</sub>N<sub>4</sub>O<sub>2</sub>  
 Molecular Weight: 478.47  
 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	JDB175, a selective BTK inhibitor with oral bioavailability, demonstrates excellent penetration through the blood-brain barrier. It exhibits potent activity against central nervous system lymphoma in a mouse model, with no apparent toxicity. JDB175 effectively suppresses human lymphoma cell proliferation by inhibiting the BTK signaling pathway, induces cell cycle arrest, and promotes apoptosis[1].
Targets(IC50)	BTK
In vitro	JDB175, at concentrations ranging from 15-40 $\mu$ M administered over 48 hours, effectively inhibits the phosphorylation of BTK and downregulates the expression of cyclin D1 and CDK2, while upregulating the expression of P21 in Namalwa and Raji cells [1].
In vivo	JDB175 administered at a dose of 10 mg/kg orally (口服) and observed for 0.5 hours demonstrates a strong potential to permeate the blood-brain barrier and effectively suppresses central nervous system lymphoma in rats [1]. When given to nude mouse models of central nervous system lymphoma at a higher dosage of 150 mg/kg orally (口服) over three days, JDB175 effectively inhibits tumor growth while maintaining a favorable safety profile [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.090 mL	10.450 mL	20.900 mL
5 mM	0.418 mL	2.090 mL	4.180 mL
10 mM	0.209 mL	1.045 mL	2.090 mL
50 mM	0.0418 mL	0.209 mL	0.418 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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