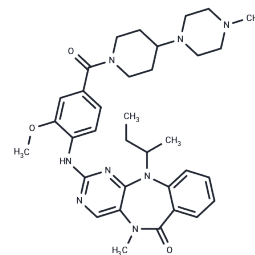


JWG-071

Chemical Properties

CAS No. : 2250323-50-1
 Formula: C₃₄H₄₄N₈O₃
 Molecular Weight: 612.77
 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	JWG-071, the first reported chemical probe for ERK5 kinase selectivity, is a BET-selective inhibitor with a 1 μ M BRD4 IC that enhances both ERK5 activity and BRD4 selectivity.
Targets(IC50)	ERK,Epigenetic Reader Domain
In vitro	JWG-071 demonstrates IC50 values of 88 nM and 109 nM for inhibiting ERK5 and LRRK2, respectively.[1]

Solubility Information

Solubility	DMSO: 61.28 mg/mL (100 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: 2 mg/mL (3.26 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6319 mL	8.1597 mL	16.3193 mL
5 mM	0.3264 mL	1.6319 mL	3.2639 mL
10 mM	0.1632 mL	0.816 mL	1.6319 mL
50 mM	0.0326 mL	0.1632 mL	0.3264 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

Wang J, et al. Structural and Atropisomeric Factors Governing the Selectivity of Pyrimido-benzodiazepinones as Inhibitors of Kinases and Bromodomains. ACS Chem Biol. 2018 Sep 21;13(9):2438-2448

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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