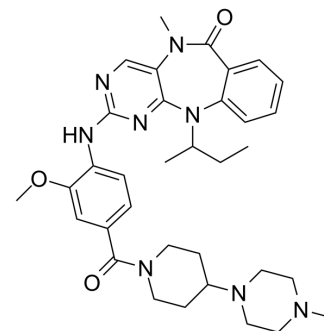


JWG-071

Cat. No.:	HY-108886		
CAS No.:	2250323-50-1		
Molecular Formula:	C ₃₄ H ₄₄ N ₈ O ₃		
Molecular Weight:	612.76		
Target:	ERK		
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (163.20 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.6320 mL	8.1598 mL	16.3196 mL
	5 mM	0.3264 mL	1.6320 mL	3.2639 mL
	10 mM	0.1632 mL	0.8160 mL	1.6320 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.08 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.08 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.08 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	JWG-071 is the first reported kinase-selective chemical probe for ERK5. JWG-071 improves ERK5 activity and BRD4 selectivity. JWG-071 will be a much-needed chemical probe for deconvoluting ERK5 and BRD4 pharmacology ^[1] .
IC₅₀ & Target	ERK5 88 nM (IC ₅₀)
In Vitro	JWG-071 inhibits ERK5 and LRRK2 with IC ₅₀ of 88 and 109 nM, respectively ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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