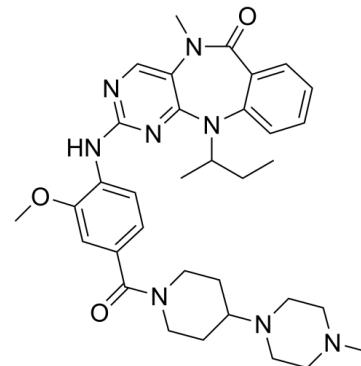


Data Sheet

Product Name:	JWG-071
Cat. No.:	CS-8155
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
Solubility:	DMSO : 100 mg/mL (163.20 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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]. *In Vitro*: JWG-071 inhibits ERK5 and LRRK2 with IC₅₀ of 88 and 109 nM, respectively^[1].

References:

[1]. 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

CAIndexNames:

11-(sec-butyl)-2-((2-methoxy-4-(4-(4-methylpiperazin-1-yl)piperidine-1-carbonyl)phenyl)amino)-5-methyl-5H-benzo[e]pyrimido[5,4-b][1,4]diazepin-6(11H)-one

SMILES:

COC1=CC(C(N2CCC(N3CCN(C)CC3)CC2)=O)=CC=C1NC4=NC=C(N(C)C5=O)C(N(C6=CC=CC=C65)C(C)CC)=N4

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

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