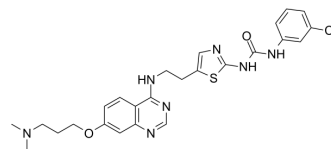


BPR1K871

Cat. No.:	HY-100865		
CAS No.:	2443767-35-7		
Molecular Formula:	C ₂₅ H ₂₈ ClN ₇ O ₂ S		
Molecular Weight:	526.05		
Target:	FLT3		
Pathway:	Protein Tyrosine Kinase/RTK		
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 : 125 mg/mL (237.62 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.9010 mL	9.5048 mL	19.0096 mL
		5 mM	0.3802 mL	1.9010 mL	3.8019 mL
10 mM		0.1901 mL	0.9505 mL	1.9010 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.95 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.95 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	BPR1K871 is a potent and selective dual FLT3/AURKA inhibitor with IC ₅₀ s of 19 nM and 22 nM for FLT3 and AURKA, respectively, acts as a preclinical development candidate for anti-cancer therapy ^[1] .
IC ₅₀ & Target	IC ₅₀ : 19 nM (FLT3), 22 nM (AURKA) ^[1]
In Vitro	BPR1K871 shows potent anti-proliferative activities in MOLM-13 and MV4-11 AML cells with an EC ₅₀ of ~ 5 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	BPR1K871 is a multi-kinase inhibitor for the treatment of acute myeloid leukemia (AML) and solid tumors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hsu YC, et al. Discovery of BPR1K871, a quinazoline based, multi-kinase inhibitor for the treatment of AML and solid tumors: Rational design, synthesis, in vitro and in vivo evaluation. 2016 Dec 27; 7(52): 86239–86256.

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

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