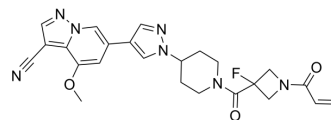


## FGFR3-IN-5

Cat. No.:	HY-148779		
CAS No.:	2446664-72-6		
Molecular Formula:	C <sub>24</sub> H <sub>24</sub> FN <sub>7</sub> O <sub>3</sub>		
Molecular Weight:	477.49		
Target:	FGFR		
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 : 100 mg/mL (209.43 mM; ultrasonic and warming and heat to 160°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0943 mL	10.4714 mL	20.9428 mL
		5 mM	0.4189 mL	2.0943 mL	4.1886 mL
10 mM		0.2094 mL	1.0471 mL	2.0943 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: 5 mg/mL (10.47 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 5 mg/mL (10.47 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	FGFR3-IN-5 is a potent and selective FGFR3 inhibitor with IC <sub>50</sub> values of 3, 44, and 289 nM for FGFR3, FGFR2, and FGFR1, respectively. FGFR3-IN-5 can be used in research of cancer <sup>[1]</sup> .		
IC <sub>50</sub> & Target	FGFR3 3 nM (IC <sub>50</sub> )	FGFR2 44 nM (IC <sub>50</sub> )	FGFR1 289 nM (IC <sub>50</sub> )
In Vitro	FGFR3-IN-5 (compound 37; 5 mM; 1 h; HEK-293 cells) inhibits FGFR phosphorylation with IC <sub>50</sub> values of 8 and 59 nM for FGFR3 and FGFR1, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

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## REFERENCES

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[1]. James FB, et, al. Substituted pyrazolo[1,5-a]pyridine compounds as inhibitors of fgfr tyrosine kinases. WO2020131627.

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

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