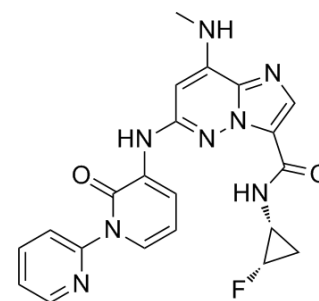


Tyk2-IN-5

Cat. No.:	HY-111745		
CAS No.:	1797432-62-2		
Molecular Formula:	C ₂₁ H ₁₉ FN ₈ O ₂		
Molecular Weight:	434.43		
Target:	JAK		
Pathway:	Epigenetics; JAK/STAT Signaling; 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 : 43.33 mg/mL (99.74 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.3019 mL	11.5093 mL	23.0187 mL
		5 mM		0.4604 mL	2.3019 mL	4.6037 mL
10 mM			0.2302 mL	1.1509 mL	2.3019 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: ≥ 2.17 mg/mL (5.00 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Tyk2-IN-5 (compound 6) is a highly potent, selective and orally active Tyk2 inhibitor and targets the JH2 domain, with a K _i of 0.086 nM for Tyk2 JH2 and an IC ₅₀ of 25 nM for IFNα. Highly effective in inhibiting IFNγ production in a rat pharmacodynamics model and fully efficacious in a rat adjuvant arthritis model ^[1] .	
IC ₅₀ & Target	Tyk2 JH2 0.086 nM (K _i)	IFNα 25 nM (IC ₅₀)

REFERENCES

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

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