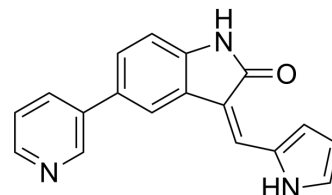


JAK3-IN-14

Cat. No.:	HY-155951
CAS No.:	454234-24-3
Molecular Formula:	C ₁₈ H ₁₃ N ₃ O
Molecular Weight:	287.32
Target:	JAK
Pathway:	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (435.05 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.4804 mL	17.4022 mL	34.8044 mL
	5 mM	0.6961 mL	3.4804 mL	6.9609 mL
	10 mM	0.3480 mL	1.7402 mL	3.4804 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

JAK3-IN-14 (compound 1) is a potent JAK3 inhibitor, with IC₅₀ values of 38 and 600 nM for JAK3 and JAK2, respectively. JAK3-IN-14 shows inhibitory of IL-4 and IL-3 induced TF-1 cell proliferation, with IC₅₀ values of 600 and 500 nM, respectively [1].

IC₅₀ & Target

JAK3 38 nM (IC ₅₀)	JAK2 600 nM (IC ₅₀)
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REFERENCES

[1]. Chen JJ, et al. Development of pyrimidine-based inhibitors of Janus tyrosine kinase 3. Bioorg Med Chem Lett. 2006 Nov 1;16(21):5633-8.

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

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