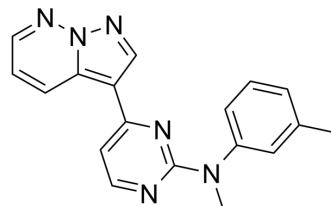


Dyrk1A-IN-3

Cat. No.:	HY-147060		
CAS No.:	2493976-27-3		
Molecular Formula:	C ₁₈ H ₁₆ N ₆		
Molecular Weight:	316.36		
Target:	DYRK		
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 (316.10 mM; ultrasonic and warming and heat to 80°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1610 mL	15.8048 mL	31.6096 mL
	5 mM	0.6322 mL	3.1610 mL	6.3219 mL
	10 mM	0.3161 mL	1.5805 mL	3.1610 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (7.90 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (7.90 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Dyrk1A-IN-3 (Compound 8b), a highly selective dual-specificity tyrosine-regulated kinase 1A (DYRK1A) inhibitor, maintains high levels of DYRK1A binding affinity (IC₅₀=76 nM). Dyrk1A-IN-3 can be used for the research of neurodegenerative disorders such as Alzheimer's Disease, Huntington's Disease, and Parkinson's Disease^[1].

REFERENCES

- [1]. Scott H Henderson, et al. Mining Public Domain Data to Develop Selective DYRK1A Inhibitors. ACS Med Chem Lett. 2020 Jun 30;11(8):1620-1626.

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

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