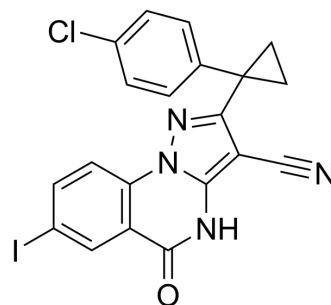


Dynapyrazole-A

Cat. No.:	HY-131873		
CAS No.:	2226517-75-3		
Molecular Formula:	C ₂₀ H ₁₂ ClIN ₄ O		
Molecular Weight:	486.69		
Target:	Dynamain		
Pathway:	Cytoskeleton		
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 : 25 mg/mL (51.37 mM; ultrasonic and warming and heat to 60°C)					
		Solvent	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	Concentration				
		1 mM		2.0547 mL	10.2735 mL	20.5470 mL
5 mM			0.4109 mL	2.0547 mL	4.1094 mL	
	10 mM		0.2055 mL	1.0273 mL	2.0547 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: ≥ 2.5 mg/mL (5.14 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.14 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Dynapyrazole A is a specific inhibitor of microtubule dynamin that specifically inhibits the ATPase activity of microtubule-stimulated dynamin without blocking microtubule-independent basal activity ^[1] .
In Vitro	Dynapyrazole A (1- 3 µg/mL, 14 h) reduces viral titers in MA-104 cells infected with RVA-NMTL virus in a dose-dependent manner with an EC ₅₀ value of 0.73 µg/mL ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhaoyang Jing, et al. Rotavirus Viroplasm Biogenesis Involves Microtubule-Based Dynein Transport Mediated by an Interaction between NSP2 and Dynein Intermediate Chain. J Virol. 2021 Oct 13;95(21):e0124621.

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

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