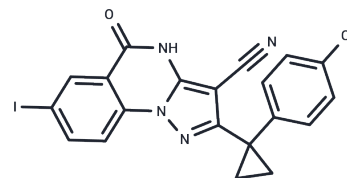


Dynapyrazole A

Chemical Properties

CAS No. :	2226517-75-3
Formula:	C ₂₀ H ₁₂ ClIN ₄ O
Molecular Weight:	486.69
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Dynapyrazole A is a specific inhibitor of microtubule dynamin with IC ₅₀ s of 2.3 and 2.6 μ M for dynein 1 and dynein 2-dependent microtubule gliding. Dynapyrazole A inhibits Hedgehog signaling with an IC ₅₀ of 1.9 μ M.
Targets(IC ₅₀)	Dynamin
In vitro	Dynapyrazole A displays reversible inhibition of retrograde and anterograde intraflagellar transport in Chlamydomonas. In MA-104 cells infected with the RVA-NMTL virus, Dynapyrazole A (1-3 μ g/mL) dose-dependently reduces viral titers with an EC ₅₀ of 0.73 μ g/mL[1].

Solubility Information

Solubility	DMSO: 22.5 mg/mL (46.2 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0547 mL	10.2735 mL	20.547 mL
5 mM	0.4109 mL	2.0547 mL	4.1094 mL
10 mM	0.2055 mL	1.0273 mL	2.0547 mL
50 mM	0.0411 mL	0.2055 mL	0.4109 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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