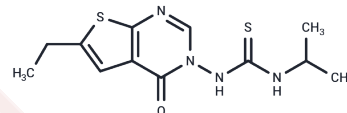


Myosin-IN-1

Chemical Properties

CAS No. :	849011-39-8
Formula:	C ₁₂ H ₁₆ N ₄ O ₂
Molecular Weight:	296.41
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Myosin-IN-1 (compound F10), a specific inhibitor of cardiac myosin, acts by stabilizing the cardiac myosin motor domain in its closed biochemical and structural state. Myosin-IN-1 (compound F10) reduces myocardial force production and calcium sensitivity, functioning as a negative inotropic agent. In isolated Langendorff-perfused rat hearts, Myosin-IN-1 decreases stress in myofilaments and diminishes the development of left ventricular pressure, and applicable in heart failure research.
Targets(IC50)	Myosin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3737 mL	16.8685 mL	33.7371 mL
5 mM	0.6747 mL	3.3737 mL	6.7474 mL
10 mM	0.3374 mL	1.6869 mL	3.3737 mL
50 mM	0.0675 mL	0.3374 mL	0.6747 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Parijat P, et al. Discovery of a novel cardiac-specific myosin modulator using artificial intelligence-based virtual screening. Nat Commun. 2023 Nov 24;14(1):7692.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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