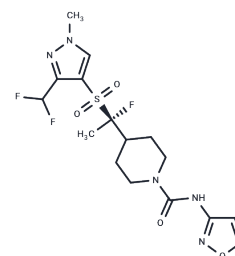


## Danicamtiv

## Chemical Properties

CAS No. :	1970972-74-7
Formula:	C <sub>16</sub> H <sub>20</sub> F <sub>3</sub> N <sub>5</sub> O <sub>4</sub> S
Molecular Weight:	435.42
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	Danicamtiv (MYK-491) is an inotropic agent and it also is a selective allosteric activator of cardiac myosin. Danicamtiv increases cardiac systolic function and preserves mechanical efficiency.
Targets(IC <sub>50</sub> )	Myosin

## Solubility Information

Solubility	DMSO: 50 mg/mL (114.83 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.59 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2966 mL	11.4832 mL	22.9663 mL
5 mM	0.4593 mL	2.2966 mL	4.5933 mL
10 mM	0.2297 mL	1.1483 mL	2.2966 mL
50 mM	0.0459 mL	0.2297 mL	0.4593 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

Sarah Fernandes, et al. Abstract 15707: MYK-491, a Novel Small-Molecule Cardiac Myosin Activator Increases Cardiac Systolic Function and Preserves Mechanical Efficiency: Pre-Clinical in vivo and in vitro Evidence. Circulation. 2019;140:A15707

Johan Oslob, et al. 4-methylsulfonyl-substituted piperidine urea compounds for the treatment of dilated cardiomyopathy (dcm). WO2016118774A1.

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