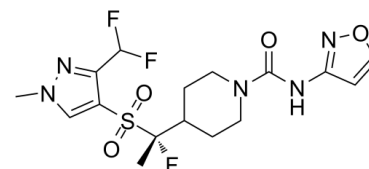


Data Sheet

Product Name:	Danicamtiv
Cat. No.:	CS-0086762
CAS No.:	1970972-74-7
Molecular Formula:	C ₁₆ H ₂₀ F ₃ N ₅ O ₄ S
Molecular Weight:	435.42
Target:	Myosin
Pathway:	Cytoskeleton
Solubility:	DMSO : 50 mg/mL (114.83 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Danicamtiv (MYK-491), an inotropic agent, is a selective allosteric activator of **cardiac myosin**. Danicamtiv increases cardiac systolic function and preserves mechanical efficiency^[1]. **In Vivo:** Danicamtiv selectively enhances cardiac actomyosin activity, the molecular force - generating unit of the sarcomere, prolonging contraction while preserving actin-myosin detachment, allowing relaxation, and without impacting Ca²⁺ homeostasis^[2].

References:

[1]. 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

[2]. Voors AA, et al. Effects of danicamtiv, a novel cardiac myosin activator, in heart failure with reduced ejection fraction: experimental data and clinical results from a phase 2a trial. *Eur J Heart Fail*. 2020;22(9):1649-1658.

CAIndexNames:

1-Piperidinecarboxamide, 4-[(1R)-1-[[3-(difluoromethyl)-1-methyl-1H-pyrazol-4-yl]sulfonyl]-1-fluoroethyl]-N-3-isoxazolyl-

SMILES:

O=S([C@@](C1CCN(CC1)C(NC2=NOC=C2)=O)(C)F)(C3=CN(N=C3C(F)F)C)=O

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

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