

Product Data Sheet

Product Name: Danicamtiv

Cat. No.: GC60120

Chemical Properties

Cas. No. 1970972-74-7

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

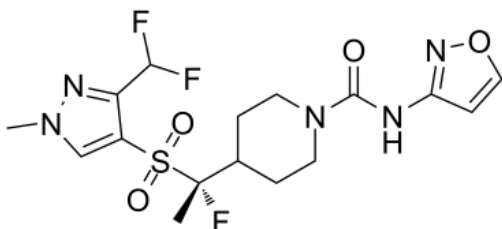
Formula $C_{16}H_{20}F_3N_5O_4S$ M.Wt 435.42

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Danicamtiv, an inotropic agent, is a selective allosteric activator of cardiac myosin. Danicamtiv increases cardiac systolic function and preserves mechanical efficiency[1]. Clinical studies have demonstrated that danicamtiv significantly increases cardiac systolic function, leading to improved pumping efficiency of the heart. Notably, it also preserves mechanical efficiency, meaning that the heart can generate greater force without expending excessive energy. This dual action helps to optimize cardiac performance while minimizing the risk of adverse effects often associated with

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

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traditional inotropic therapies.

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

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