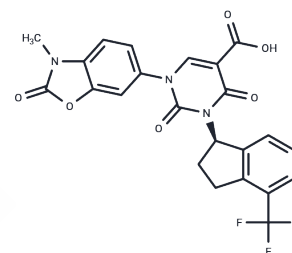


Fulacimstat

Chemical Properties

CAS No. :	1488354-15-9
Formula:	C ₂₃ H ₁₆ F ₃ N ₃ O ₆
Molecular Weight:	487.38
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	Fulacimstat (BAY1142524) (BAY1142524) is a chymase inhibitor, with IC ₅₀ s of 3, 4 nM for hamster and human chymase enzyme, respectively.
Targets(IC ₅₀)	Others, Proteasome
In vivo	Isoprenaline induces cardiac fibrosis (24.4%) in hamsters, which is reduced dose-dependently by Fulacimstat (16.4%, 12.4%, 10.9% at 1, 3 and 10 mg/kg respectively). Four weeks after MI, hamster hearts show increased end-diastolic pressure and reduced contractility and relaxation. Compared to placebo (19.3±2 mmHg), Fulacimstat at 10 mg/kg reduces significantly the end-diastolic pressure (13.2±1.4 mmHg) without any effects on blood pressure or heart rate. Moreover, treatment with Fulacimstat reduces the fibrotic area and improves the cardiac response to adrenergic stimulation [1].

Solubility Information

Solubility	DMSO: 5 mg/mL (10.26 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: 1 mg/mL (2.05 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	2.0518 mL	10.2589 mL	20.5179 mL
5 mM	0.4104 mL	2.0518 mL	4.1036 mL
10 mM	0.2052 mL	1.0259 mL	2.0518 mL
50 mM	0.041 mL	0.2052 mL	0.4104 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

Hanna Tinel, et al. Abstract 13624: A Novel Chymase Inhibitor BAY 1142524 Reduces Fibrosis and Improves Cardiac Function After Myocardial Infarction in Hamster. *Circulation*. 2018;136:A13624.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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