

PFK-158

Chemical Properties

CAS No. : 1462249-75-7

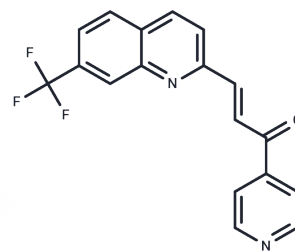
Formula: C₁₈H₁₁F₃N₂O

Molecular Weight: 328.29

Store at low temperature

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	PFK-158 is an effective and specific inhibitor PFKFB3.
Targets(IC50)	Apoptosis,Glucokinase,Autophagy

Solubility Information

Solubility	DMSO: 35.51 mg/mL (108.17 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: 3.55 mg/mL (10.81 mM),Suspension. 10% DMSO+90% Saline: < 3.55 mg/mL (10.81 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	3.0461 mL	15.2304 mL	30.4609 mL
5 mM	0.6092 mL	3.0461 mL	6.0922 mL
10 mM	0.3046 mL	1.523 mL	3.0461 mL
50 mM	0.0609 mL	0.3046 mL	0.6092 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

Rebecca Redman, et al. Y Res August 1, 2015 75; CT206.

Zhang Y, Wang X, Li X, et al. Synergistic effect of colistin combined with PFK-158 against colistin-resistant Enterobacteriaceae. Antimicrobial Agents and Chemotherapy. 2019, 63(7): e00271-19

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