

KAN0438757

Chemical Properties

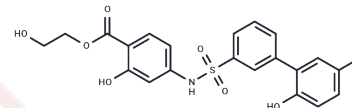
CAS No. : 1451255-59-6

Formula: C₂₁H₁₈FNO₇S

Molecular Weight: 447.43

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	KAN0438757 is a selective and potent inhibitor of the metabolic kinase [PFKFB3] with an IC ₅₀ of 0.19 μM.
Targets(IC ₅₀)	Glucokinase, Autophagy

Solubility Information

Solubility	DMSO: 130 mg/mL (290.55 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: 3.3 mg/mL (7.38 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	2.235 mL	11.1749 mL	22.3499 mL
5 mM	0.447 mL	2.235 mL	4.470 mL
10 mM	0.2235 mL	1.1175 mL	2.235 mL
50 mM	0.0447 mL	0.2235 mL	0.447 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

Gustafsson NMS, et al. Targeting PFKFB3 radiosensitizes cancer cells and suppresses homologous recombination. Nat Commun. 2018 Sep 24;9(1):3872.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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