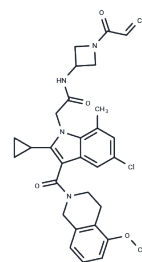


K-Ras G12C-IN-4

Chemical Properties

CAS No. : 2376328-55-9
Formula: C₃₁H₃₃ClN₄O₄
Molecular Weight: 561.07
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	K-Ras G12C-IN-4 is a potent co-valent Inhibitor of KRAS G12C..
Targets(IC50)	Ras,Kras
In vitro	Administration of K-Ras G12C-IN-4 for 4 hours inhibits MAPK signaling (p-ERK) in MIA PaCa-2 cells with IC ₅₀ of 0.219 μM[1]. In the CellTiter-Glo assay of MIA PaCa-2 cells, the use of K-Ras G12C-IN-4 for 72 hours inhibited its cell viability with IC ₅₀ of 0.067 μM[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (89.12 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (4.46 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	1.7823 mL	8.9115 mL	17.8231 mL
5 mM	0.3565 mL	1.7823 mL	3.5646 mL
10 mM	0.1782 mL	0.8912 mL	1.7823 mL
50 mM	0.0356 mL	0.1782 mL	0.3565 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

Shin Y, et al. Discovery of N-(1-Acryloylazetid-3-yl)-2-(1H-indol-1-yl)acetamides as Covalent Inhibitors of KRASG12C. ACS Med Chem Lett. 2019 Aug 20;10(9):1302-1308.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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