

K-Ras(G12C) inhibitor 12

Chemical Properties

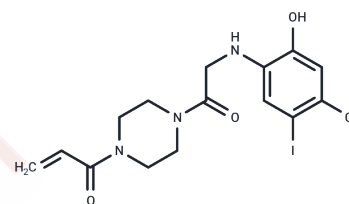
CAS No. : 1469337-95-8

Formula: C₁₅H₁₇ClIN₃O₃

Molecular Weight: 449.67

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) inhibitor 12 is an allosteric inhibitor of the oncogenic K-Ras(G12C) protein.
Targets(IC50)	Apoptosis,Raf,Ras,Kras
In vitro	K-Ras(G12C) inhibitor 12 belongs to a series of small molecules, which irreversibly bind to a common oncogenic mutant K-Ras(G12C) and blocks K-Ras(G12C) interactions. Some of them decrease viability and increase apoptosis of G12C-containing cancer cell lines. [1]

Solubility Information

Solubility	DMSO: 26 mg/mL (57.82 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 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 (2.22 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	2.2239 mL	11.1193 mL	22.2385 mL
5 mM	0.4448 mL	2.2239 mL	4.4477 mL
10 mM	0.2224 mL	1.1119 mL	2.2239 mL
50 mM	0.0445 mL	0.2224 mL	0.4448 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

Ostrem JM, et al. Nature. 2013, 503(7477), 548-551.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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