

ASP2453

Chemical Properties

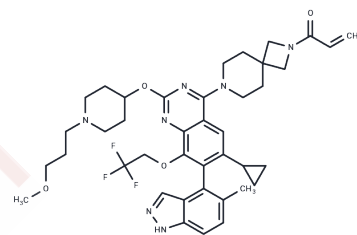
CAS No. : 2241719-73-1

Formula: C40H48F3N7O4

Molecular Weight: 747.85

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	ASP2453 is a potent, selective, and covalent inhibitor of KRAS G12C that inhibits the Son of Sevenless (SOS)-mediated interaction between KRAS G12C and Raf with an IC50 value of 40 nM.
Targets(IC50)	ERK,Ras,Kras

Solubility Information

Solubility	DMSO: 250 mg/mL (334.29 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: 5 mg/mL (6.69 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	1.3372 mL	6.6858 mL	13.3717 mL
5 mM	0.2674 mL	1.3372 mL	2.6743 mL
10 mM	0.1337 mL	0.6686 mL	1.3372 mL
50 mM	0.0267 mL	0.1337 mL	0.2674 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

Nakayama A, et al. Characterisation of a novel KRAS G12C inhibitor ASP2453 that shows potent anti-tumour activity in KRAS G12C-mutated preclinical models. Br J Cancer. 2021 Nov 18.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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