K-Ras G12C-IN-4

Cat. No.: HY-128771

CAS No.: 2376328-55-9

Molecular Formula: $C_{31}H_{33}ClN_4O_4$

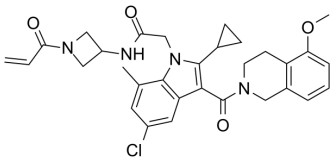
Molecular Weight: 561.07

Target: Ras

Pathway: GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (111.39 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (3.71 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

K-Ras G12C-IN-4, compound 1, is a potent Covalent Inhibitor of $KRAS^{G12C}$[1].

In Vitro

K-Ras G12C-IN-4 (4 hours) exhibits IC_{50}=0.219 μM for inhibition of MAPK signaling (p-ERK) in MIA PaCa-2 cells[1].
K-Ras G12C-IN-4 (72 hours) translates to a 0.067 μM IC_{50} for inhibition of cellular viability in a CellTiter-Glo experiment in MIA PaCa-2 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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