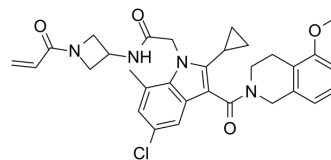


## K-Ras G12C-IN-4

Cat. No.:	HY-128771		
CAS No.:	2376328-55-9		
Molecular Formula:	C <sub>31</sub> H <sub>33</sub> ClN <sub>4</sub> O <sub>4</sub>		
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 Concentration	Mass		
		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

- 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
- 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<sup>G12C</sup>[1].

#### In Vitro

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

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

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