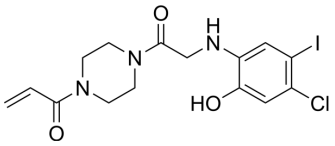
K-Ras(G12C) inhibitor 12

Cat. No.:	HY-18707
CAS No.:	1469337-95-8
Molecular Formula:	$C_{15}H_{17}ClIN_3O_3$
Molecular Weight:	449.67
Target:	Ras; Apoptosis
Pathway:	GPCR/G Protein; MAPK/ERK Pathway; Apoptosis
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (37.07 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 1.67 mg/mL (3.71 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.67 mg/mL (3.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

K-Ras(G12C) inhibitor 12 is a K-Ras(G12C) inhibitor. K-Ras(G12C) inhibitor 12 acts on H1792 cells with an EC50 of 0.32 μM.

REFERENCES

[1]. Ostrem JM, et al. K-Ras(G12C) inhibitors allosterically control GTP affinity and effector interactions. Nature. 2013 Nov 28;503(7477):548-551.

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

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