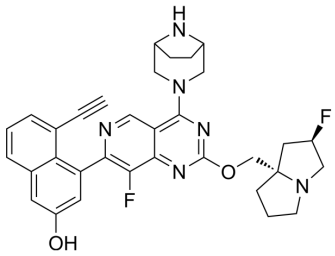
KRAS G12D inhibitor 1

Cat. No.:	HY-134811
CAS No.:	2621928-43-4
Molecular Formula:	$C_{33}H_{32}F_2N_6O_2$
Molecular Weight:	582.64
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 : 55 mg/mL (94.40 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7163 mL	8.5816 mL	17.1633 mL
	5 mM	0.3433 mL	1.7163 mL	3.4327 mL
	10 mM	0.1716 mL	0.8582 mL	1.7163 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: 5.5 mg/mL (9.44 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (4.29 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

KRAS G12D inhibitor 1 (example 243) is a KRAS G12D inhibitor, with an IC_{50} of 0.8 nM for KRAS G12D-mediated ERK phosphorylation[1]. KRAS G12D inhibitor 1 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target

IC50: 0.8 nM (KRAS G12D-mediated ERK phosphorylation)[1].

REFERENCES

[1]. WANG XIAOLUN (US), et al. KRAS G12D INHIBITORS. WO2021041671.

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