KRas G12R inhibitor 1

Cat. No.: HY-151523

Molecular Formula: $C_{39}H_{38}ClF_7N_6O_9$

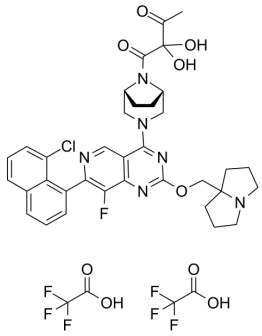
Molecular Weight: 903.2

Target: Ras

Pathway: GPCR/G Protein; MAPK/ERK Pathway

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (110.72 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.1072 mL	5.5359 mL	11.0717 mL
	5 mM	0.2214 mL	1.1072 mL	2.2143 mL
	10 mM	0.1107 mL	0.5536 mL	1.1072 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: ≥ 2.5 mg/mL (2.77 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.77 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

KRas G12R inhibitor 1 (compound 3) is a KRas G12R selective covalent inhibitor that exploits the strong nucleophilicity of mutant cysteines and binds irreversibly in the Switch II region of K-Ras. KRas G12R inhibitor 1 can be used in cancer research [1].

REFERENCES

[1]. Ziyang Zhang, et al. Chemoselective Covalent Modification of K-Ras(G12R) with a Small Molecule Electrophile. J Am Chem Soc. 2022 Sep 7;144(35):15916-15921.

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

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