## Divarasib

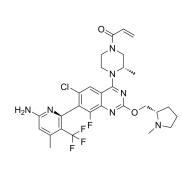
HY-145928		
2417987-45	-0	
C <sub>29</sub> H <sub>32</sub> ClF <sub>4</sub> N <sub>7</sub> O <sub>2</sub>		
622.06		
Ras		
GPCR/G Protein; MAPK/ERK Pathway		
Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month
	2417987-45 C <sub>29</sub> H <sub>32</sub> ClF <sub>4</sub> N 622.06 Ras GPCR/G Pro Powder	2417987-45-0 $C_{29}H_{32}CIF_{4}N_{7}O_{2}$ 622.06 Ras GPCR/G Protein; MAI Powder -20°C 4°C In solvent -80°C

### SOLVENT & SOLUBILITY

Preparing Stock Solution		Mass Solvent Concentration	1 mg	5 mg	10 mg	
	reparing ock Solutions	1 mM	1.6076 mL	8.0378 mL	16.0756 ml	
		5 mM	0.3215 mL	1.6076 mL	3.2151 mL	
		10 mM	0.1608 mL	0.8038 mL	1.6076 mL	
Pl	ease refer to the sc	lubility information to select the app	propriate solvent.			
<b>'o</b> 1	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.02 mM); Clear solution					
2	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.02 mM); Suspended solution; Need ultrasonic					
3	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.02 mM); Clear solution					

BIOLOGICAL ACTIVITY					
Description	Divarasib (GDC-6036) is an orally bioavailable, highly potent, and selective KRAS G12C inhibitor with an IC <sub>50</sub> of <0.01 μM. Divarasib covalently binds to the switch II (SW-II) pocket of KRAS G12C and irreversibly locks it in the inactive GDP-bound state.				
IC₅₀ & Target	K-Ras(G12C) <0.01 μM (IC <sub>50</sub> )				

# MCE



Product Data Sheet

In Vitro	Divarasib (compound 17a) has an EC <sub>50</sub> of 2 nM in K-Ras G12C-alkylation HCC1171 cells <sup>[2]</sup> MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Divarasib (10-100 mg/kg/day; PO for 7 days) decreases the ratio of free KRAS G12C <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Female C.B-17 SCID (Inbred) mice (20-21 weeks old; 24.1 g) with human NSCLC NCI-H2030.X1.1 cells $^{[1]}$	
	Dosage:	10, 25, or 100 mg/kg	
	Administration:	Oral gavage (PO) every day (QD) for 7 days (vehicle: 0.5% methylcellulose)	
	Result:	Decreased the ratio of free KRAS G12C to internal standard. Dose-dependent target engagement was observed for all time points (2, 8, and 24 h post- last dose), with over 90% KRAS G12C engagement observed for the highest dose 100 mg/kg assessed.	

#### **CUSTOMER VALIDATION**

• Cancer Discov. 2024 Jan 18.

See more customer validations on www.MedChemExpress.com

### REFERENCES

[1]. Lingyao Meng, et al. Assessment of KRAS G12C Target Engagement by a Covalent Inhibitor in Tumor Biopsies Using an Ultra-Sensitive Immunoaffinity 2D-LC-MS/MS Approach. Anal Chem. 2022 Sep 20;94(37):12927-12933.

[2]. Sushant Malhotra, et al. Fused ring compounds. WO2020097537A2.

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

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