## Divarasib

Cat. No.:	HY-145928			
CAS No.:	2417987-45-0			
Molecular Formula:	C <sub>29</sub> H <sub>32</sub> ClF <sub>4</sub> N <sub>7</sub> O <sub>2</sub>			
Molecular Weight:	622.06			
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	

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## SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (160.76 mM; Need ultrasonic)						
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		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		
	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 (4.02 mM); Clear solution						
	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. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.02 mM); Clear solution						

C

F

 $H_2N$ 

<u>ٰ</u>N

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 $^{\left[1\right]}$	
	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.	

## 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.