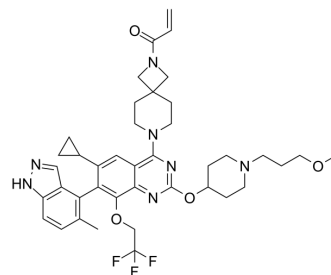


ASP2453

Cat. No.:	HY-132966		
CAS No.:	2241719-73-1		
Molecular Formula:	C ₄₀ H ₄₈ F ₃ N ₇ O ₄		
Molecular Weight:	747.85		
Target:	Ras		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (334.29 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.3372 mL	6.6858 mL	13.3717 mL
		5 mM		0.2674 mL	1.3372 mL	2.6743 mL
10 mM		0.1337 mL	0.6686 mL	1.3372 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: ≥ 2.08 mg/mL (2.78 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (2.78 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	ASP2453 is a potent, selective and covalent KRAS G12C inhibitor. ASP2453 inhibits the Son of Sevenless (SOS)-mediated interaction between KRAS G12C and Raf with an IC ₅₀ value of 40 nM.
IC ₅₀ & Target	KRas G12C 40 nM (IC ₅₀)

REFERENCES

[1]. Nakayama A, et al. Characterisation of a novel KRAS G12C inhibitor ASP2453 that shows potent anti-tumour activity in KRAS G12C-mutated preclinical models. Br J

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

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