

KRASG12C IN-2

Cat. No.: HY-153262 CAS No.: 2706637-12-7 Molecular Formula: $C_{32}H_{35}F_6N_7O_3$ Molecular Weight: 679.66

Target: Ras

Pathway: GPCR/G Protein

Please store the product under the recommended conditions in the Certificate of Storage:

BIOLOGICAL ACTIVITY

Description	KRASG12C IN-2 (compo	aund 17) is an orally active KRAS $^{ m G12C}$ inhibitor. KRASG12C IN-2 inhibits tumor growth in mice $^{[1]}$.		
IC ₅₀ & Target	KRAS ^{G12C[1]} .			
In Vitro	KRASG12C IN-2 (0-100 nM; 72 h) inhibits the inhibition of the proliferation of KRAS ^{G12C} mutant MIA-PA-CA-2 cells, with an IC ₅₀ value of 0.44 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay ^[1]			
	Cell Line:	MIA-PA-CA-2 cells (with KRAS ^{G12C} mutant)		
	Concentration:	0-100 nM		
	Incubation Time:	72 h		
	Result:	Exhibited antiproliferation activity (IC ₅₀ = 0.44 nM).		
In Vivo	KRASG12C IN-2 (10, 30 mg/kg; p.o.; single daily for 22 days) inhibits tumor growth in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	Nude Balb/c mice (Subcutaneous transplantation model of Mia PaCa-2 cells) ^[1] .		
	Dosage:	10, 30 mg/kg		
	Administration:	Oral administration; single daily for 22 days.		
	Result:	Inhibited tumor growth in mice, and the inhibition rates are 93.06% (dosage at 10 mg/kg) and 99.64% (dosage at 30 mg/kg), respectively.		
	Animal Model:	Male SD rats and male CD mice $^{[1]}$.		

Administration:	i.v.; single				
Result:	Pharmacokinetic Parameters of KRASG12C IN-2 in Male SD rats and Male CD mice $^{[1]}$.				
		Male SD rats	Male CD mice		
		IV (2 mg/kg)	IV (2 mg/kg)		
	T _{1/2} (h)	1.9	1.7		
	CL (mL/min/kg)	71.5	40.6		
	Vd _{ss} /Vd _{ss} , u(L/kg)	10.6/221	3.9/32.3		
	AUC _{0-last} /AUC _u (nM•h)	653/31.3	1297/155.6		
Animal Model:	Male SD rats and male CD mice $^{[1]}$.				
Dosage:	9.8, 10.3 mg/kg				
Administration:	p.o.; single				
Result:	Pharmacokinetic Parameters of KRASG12C IN-2 in Male SD rats and Male CD mice $^{[1]}$.				
		Male SD rats	Male CD mice		
		PO (9.8 mg/kg)	PO (10.3 mg/kg)		
	(995/47.8	1422/170.6		
	AUC _{0-last} /AUC _u (nM•h)				
	T _{max} (h)	1.5	1.0		
		1.5 220/10.6	1.0 431/51.7		

REFERENCES

[1]. Zhang Yang, et al. Pyrimidoheterocyclic compounds and application thereof. WO2021180181A1.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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