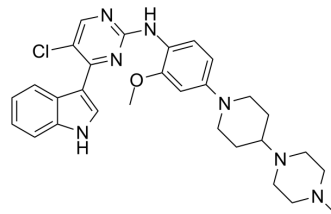


HG-14-10-04

Cat. No.:	HY-15801		
CAS No.:	1356962-34-9		
Molecular Formula:	C ₂₉ H ₃₄ ClN ₇ O		
Molecular Weight:	532.08		
Target:	Anaplastic lymphoma kinase (ALK); EGFR		
Pathway:	Protein Tyrosine Kinase/RTK; JAK/STAT Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 20 mg/mL (37.59 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	1.8794 mL	9.3971 mL
		5 mM	0.3759 mL	1.8794 mL
		10 mM	0.1879 mL	0.9397 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 mg/mL (3.76 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	HG-14-10-04 is a potent ALK and mutant EGFR inhibitor with IC ₅₀ s of 20 nM, 15.6 nM, 22.6 nM and 124.5 nM for ALK, EGFR ^{LR/TM} , EGFR ^{19del/TM/CS} and EGFR ^{LR/TM/CS} , respectively. HG-14-10-04 can be used to research anticancer ^{[1][2]} .			
IC₅₀ & Target	EGFR ^{LR/TM} 15.6 nM (IC ₅₀)	EGFR ^{19del/TM/CS} 22.6 nM (IC ₅₀)	EGFR ^{LR/TM/CS} 124.5 nM (IC ₅₀)	ALK 20 nM (IC ₅₀)
In Vitro	HG-14-10-04 (example 10) has inhibitory activity against ALK kinase with an IC ₅₀ of 20 nM ^[1] . HG-14-10-04 (compound 17b) exhibits kinase inhibitory activity against EGFR ^{LR/TM} , EGFR ^{19del/TM/CS} and EGFR ^{LR/TM/CS} with IC ₅₀ s of 15.6 nM, 22.6 nM and 124.5 nM, respectively ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Chen H, et al. Conformational Constrained 4-(1-Sulfonyl-3-indolyl)-2-phenylaminopyrimidine Derivatives as New Fourth-Generation Epidermal Growth Factor Receptor Inhibitors Targeting T790M/C797S Mutations. J Med Chem. 2022 May 12;65(9):6840-6858.

[2]. U.S. Pat. Appl. Publ. (2012), US 20120028924 A1

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

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