## SHR2415

Cat. No.:	HY-151367					
CAS No.:	2494010-42-1					
Molecular Formula:	C <sub>23</sub> H <sub>22</sub> CIN <sub>7</sub> O <sub>2</sub>					
Molecular Weight:	463.92					
Target:	ERK					
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt					
Storage:	Powder	-20°C	3 years			
		4°C	2 years			
	In solvent	-80°C	6 months			
		-20°C	1 month			

## SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (215.55 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.1555 mL	10.7777 mL	21.5554 mL	
		5 mM	0.4311 mL	2.1555 mL	4.3111 mL	
		10 mM	0.2156 mL	1.0778 mL	2.1555 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 (5.39 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.39 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.39 mM); Clear solution					

CI



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**Product** Data Sheet

In Vitro	SHR2415 has inhibition activity for ERK1 and ERK2 with IC <sub>50</sub> values of 2.8 nM and 5.9 nM, respectively <sup>[1]</sup> . SHR2415 shows the cellular potency with an IC <sub>50</sub> value of 44.6 nM in Colo205 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.							
In Vivo	SHR2415 (i.v. (1 mg/kg for mouse and rat) and p.o. (2 mg/kg for mouse, rat, and dog)) displays a favorable PK profile across species with low clearance and good in vivo exposure <sup>[1]</sup> . SHR2415 (25, 50 mg/kg; p.o.; once daily, for 14 days) displays favorable PK profiles across species as well as robust in vivo efficacy in a mouse Colo205 xenograft model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.							
	Animal Model:	Mouse, Rat and Dog <sup>[1]</sup>						
	Dosage:	1 mg/kg (mouse and rat), 0.5 mg/kg (dog), 2 mg/kg (mouse, rat, and dog)						
	Administration:	i.v. (mouse and rat) and p.o. (mouse, rat, and dog)						
	Result:	Species	Μοι	Mouse Ra		Dog		
		C <sub>max</sub> (ng/mL)	) 60	604 21		526		
		AUC <sub>0-t</sub> p.o. (ng/m	nL•h) 246	50 72	26	3271		
		t <sub>1/2</sub> p.o. (h)	3.	5 2	.1	3.2		
		CL(mL/min/k	g) 12.	2 25	5.3	10.5		
		F (%)	90.	90.8 45.		101		
	Animal Model:	Balb/c mouse Colo205 tumor xenograft model $^{[1]}$						
	Dosage:	25, 50 mg/kg						
	Administration:	p.o.; once daily, for 14 days						
	Result:	Cpds ID @ Dose	Plasma	Tumor	AUC-	TGI(%)		
			C <sub>max</sub> AU( (ng/mL) (h*ng/	C C <sub>max</sub> AUC mL)(ng/mL)(h*ng/ml	plasma			
		SHR2415@25 mg/kg	5147 2136	64 9460 30260	1.42	112		

## REFERENCES

[1]. Xin Li, et al. Discovery of SHR2415, a Novel Pyrrole-Fused Urea Scaffold ERK1/2 Inhibitor. ACS Med Chem Lett. 2022 Apr 1;13(4):701-706.

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

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