



上海源叶生物科技有限公司
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产品名称: **UNC7467**

产品货号: **S89691**

生物活性:

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Description		UNC7467 is a potent IP6K inhibitor with values of 4.9, 8.9 and 1320 nM for IP6K2, IP6K1 and IP6K6, respectively. UNC7467 reduces levels of inositol pyrophosphates. UNC7467 can be used for obesity research[1].																		
IC50 & Target		IC50: 4.9 nM (IP6K2), 8.9 nM (IP6K1), 1320 nM (IP6K3)[1].																		
In Vitro		UNC7467 (2.5 μM; 3 hours; HCT116 cells) reduces levels of inositol pyrophosphates. UNC7467 reduces 5-InsP7 levels by 81% and 5-InsP8 levels by 63%[1].																		
In Vivo		UNC7467 (5 mg/kg; i.p.; daily, for 4 weeks; diet-induced obesity mice) ameliorated diet induced obesity, insulin resistance, and hepatic steatosis[1].																		
		UNC7467 (1-5 mg/kg; i.v. and i.p.; diet-induced obesity mice) exhibits low clearance (13.7 (mL/min)/kg) and large AUClast (6054 h?ng/mL for intra venous (i.v.) and 2527 h?ng/mL for intraperitoneal (i.p.)) in mice at 5 mg/kg dose[1].																		
		Animal Model:	Diet-induced obesity (DIO) mice[1]																	
		Dosage:	5 mg/kg																	
		Administration:	Intraperitoneal injection; daily, for 4 weeks																	
		Result:	Improved glycemic profiles, ameliorated hepatic steatosis, and reduced weight gain without altering food intake.																	
		Animal Model:	Diet-induced obesity (DIO) mice[1]																	
		Dosage:	5 mg/kg (Pharmacokinetic Analysis)																	
		Administration:	Intravenous injection and intraperitoneal injection																	
		Result:	<table><tr><td>route</td><td>iv</td><td>ip</td></tr><tr><td>Dose (mg/kg)</td><td>5</td><td>5</td></tr><tr><td>AUClast (h*ng/mL)</td><td>6054</td><td>2527</td></tr><tr><td>CL (mL/min/kg)</td><td>13.7</td><td></td></tr></table>	route	iv	ip	Dose (mg/kg)	5	5	AUClast (h*ng/mL)	6054	2527	CL (mL/min/kg)	13.7						
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Dose (mg/kg)	5	5																		
AUClast (h*ng/mL)	6054	2527																		
CL (mL/min/kg)	13.7																			
Solvent&Solubility		细胞实验:																		
		DMSO 中的溶解度 : 14 mg/mL (44.40 mM; 超声助溶; 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)																		
		Preparing Stock Solutions	<table><tr><td>Solvent / Mass Concentration</td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>3.1714 mL</td><td>15.8569 mL</td><td>31.7138 mL</td></tr><tr><td>5 mM</td><td>0.6343 mL</td><td>3.1714 mL</td><td>6.3428 mL</td></tr><tr><td>10 mM</td><td>0.3171 mL</td><td>1.5857 mL</td><td>3.1714 mL</td></tr></table>	Solvent / Mass Concentration	1 mg	5 mg	10 mg	1 mM	3.1714 mL	15.8569 mL	31.7138 mL	5 mM	0.6343 mL	3.1714 mL	6.3428 mL	10 mM	0.3171 mL	1.5857 mL	3.1714 mL	
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* 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。																				
储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。																				
参考文献		[1]. Zhou Y, et, al. Development of Novel IP6K Inhibitors for the Treatment of Obesity and Obesity-Induced Metabolic Dysfunctions. J Med Chem. 2022 May 12;65(9):6869-6887.																		
完整储备液配制表:																				
* 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品																				



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可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
	1 mM	3.1714 mL	15.8569 mL	31.7138 mL	79.2845 mL
	5 mM	0.6343 mL	3.1714 mL	6.3428 mL	15.8569 mL
	10 mM	0.3171 mL	1.5857 mL	3.1714 mL	7.9285 mL
	15 mM	0.2114 mL	1.0571 mL	2.1143 mL	5.2856 mL
	20 mM	0.1586 mL	0.7928 mL	1.5857 mL	3.9642 mL
	25 mM	0.1269 mL	0.6343 mL	1.2686 mL	3.1714 mL
	30 mM	0.1057 mL	0.5286 mL	1.0571 mL	2.6428 mL
	40 mM	0.0793 mL	0.3964 mL	0.7928 mL	1.9821 mL

源叶