



上海源叶生物科技有限公司
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产品名称: **TC-MCH 7c**

CAS 号: **864756-35-4**

产品货号: **T84547**

生物活性:

Description	TC-MCH 7c, a phenylpyridone derivative, is an orally available, selective and brain-penetrable MCH1R antagonist with an IC50 of 5.6 nM for hMCH1R[1]. TC-MCH 7c has Kis of 3.4 nM and 3.0 nM of human and mouse MCH1R, respectively[2].				
IC50 & Target	IC50: 5.6 nM (hMCH1R)[1] Ki: 3.4 nM (hMCH1R) and 3.0 nM (mouse MCH1R)[1]				
In Vitro	TC-MCH 7c has an IC50 of 9.7 μM for MCH1R in [Ca2+]i mobilization[1]. TC-MCH 7c has IC50s of 23 nM and 9.0 μM for FLIPR and hERG, respectively[2].				
In Vivo	TC-MCH 7c (oral; 3-30 mg/kg; once-daily for 1.5 months) exhibits excellent body weight reduction in a dose-dependent manner in DIO mice model[1]. TC-MCH 7c (oral; 3-30 mg/kg) with 30 mg/kg has plasma concentrations of 5.1, 1.8, and 0.7 μM at 2, 15, and 24 hours, respectively[2].				
	Animal Model:	C57BL/6J DIO mice[1]			
	Dosage:	3, 10 and 30 mg/kg			
	Administration:	Oral; once-daily for 1.5 months			
	Result:	Exhibited excellent body weight reduction in a dose-dependent manner.			
	Animal Model:	Diet-induced obesity mice[2]			
	Dosage:	3, 10 and 30 mg/kg (Pharmacokinetic Analysis)			
	Administration:	Oral			
Result:	Plasma concentrations at 2, 15, and 24 hours were 5.1, 1.8, and 0.7 μM, respectively.				
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 20 mg/mL (48.96 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	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.4482 mL	12.2408 mL	24.4816 mL
		5 mM	0.4896 mL	2.4482 mL	4.8963 mL
		10 mM	0.2448 mL	1.2241 mL	2.4482 mL
* 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, 2 years; -20°C, 1 year。-80°C 储存时, 请在 2 年内使用, -20°C 储存时, 请在 1 年内使用。					
参考文献	[1]. Ito M, et al. Melanin-concentrating hormone 1-receptor antagonist suppresses body weight gain correlated with high receptor occupancy levels in diet-induced obesity mice. Eur J Pharmacol. 2009 Dec 10;624(1-3):77-83. [2]. Haga Y, et al. Discovery of novel phenylpyridone derivatives as potent and selective MCH1R antagonists. Bioorg Med Chem. 2011 Jan 15;19(2):883-93.				

完整储备液配制表:



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可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
DMSO	1 mM	2.4482 mL	12.2408 mL	24.4816 mL	61.2040 mL
	5 mM	0.4896 mL	2.4482 mL	4.8963 mL	12.2408 mL
	10 mM	0.2448 mL	1.2241 mL	2.4482 mL	6.1204 mL
	15 mM	0.1632 mL	0.8161 mL	1.6321 mL	4.0803 mL
	20 mM	0.1224 mL	0.6120 mL	1.2241 mL	3.0602 mL
	25 mM	0.0979 mL	0.4896 mL	0.9793 mL	2.4482 mL
	30 mM	0.0816 mL	0.4080 mL	0.8161 mL	2.0401 mL
	40 mM	0.0612 mL	0.3060 mL	0.6120 mL	1.5301 mL

源叶