



上海源叶生物科技有限公司
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产品名称: CL 82198 HYDROCHLORIDE

产品别名: CL-82198

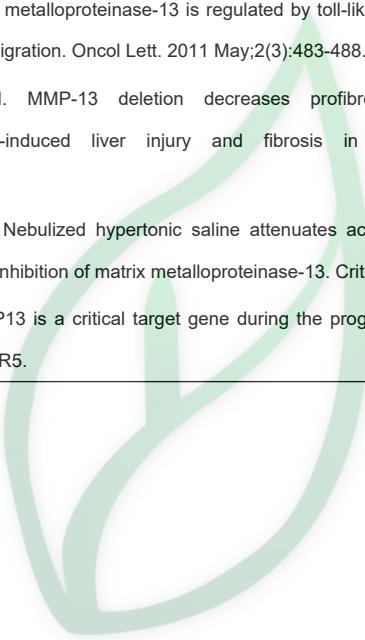
生物活性:

Description	CL-82198 is a selective inhibitor of MMP-13. CL-82198 binds to the entire S1' pocket of MMP-13, which is the basis for its selectivity towards MMP-13 and the lack of inhibitory activities against other MMPs[1][2]. CL-82198 is a pharmacologic treatment for preventing osteoarthritis (OA) progression[4].				
In Vitro	CL-82198 (10 μM; 24 hours) significantly reduces LS174 cell migration[1]. CL-82198 decreases CTGF and TGF-β1 protein levels in hepatic stellate cells[3].				
In Vivo	CL82198 (1-10 mg/kg; i.p.; every other day for 12 weeks) prevents and decelerates MLI-induced osteoarthritis progression[4].				
Animal Model:	10-week-old C57BL/6J mice (performed MLI surgery)[4]				
Dosage:	1, 5, 10 mg/kg body weight				
Administration:	Intraperitoneal injection; every other day for 12 weeks				
Result:	Prevented and decelerated MLI-induced osteoarthritis progression.				
Solvent&Solubility	In Vitro: DMSO : 100 mg/mL (330.72 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	3.3072 mL	16.5360 mL	33.0721 mL
		5 mM	0.6614 mL	3.3072 mL	6.6144 mL
		10 mM	0.3307 mL	1.6536 mL	3.3072 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, 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。				
	In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂: ——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶				
	1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (8.27 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (8.27 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中, 混合均匀 向上述体系中加入 50 μL Tween-80, 混合均匀; 然后继续加入 450 μL 生理盐水定容至 1 mL。				
	2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.27 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (8.27 mM, 饱和度未知) 的澄清溶液。				



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	<p>以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中, 混合均匀。</p> <p>3.请依序添加每种溶剂: 10% DMSO → 90% corn oil</p> <p>Solubility: \geq 2.5 mg/mL (8.27 mM); Clear solution</p> <p>此方案可获得 \geq 2.5 mg/mL (8.27 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。</p> <p>以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p>
References	<p>[1]. Rath T et al. Matrix metalloproteinase-13 is regulated by toll-like receptor-9 in colorectal cancer cells and mediates cellular migration. <i>Oncol Lett.</i> 2011 May;2(3):483-488.</p> <p>[2]. George J, et al. MMP-13 deletion decreases profibrogenic molecules and attenuates N-nitrosodimethylamine-induced liver injury and fibrosis in mice. <i>J Cell Mol Med.</i> 2017 Dec;21(12):3821-3835.</p> <p>[3]. Wohlauer M et al. Nebulized hypertonic saline attenuates acute lung injury following trauma and hemorrhagic shock via inhibition of matrix metalloproteinase-13. <i>Crit Care Med.</i> 2012 Sep;40(9):2647-53.</p> <p>[4]. Wang M, et al. MMP13 is a critical target gene during the progression of osteoarthritis. <i>Arthritis Res Ther.</i> 2013 Jan 8;15(1):R5.</p>



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