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产品名称: 石杉碱甲
产品别名: (±)-Huperzine A

生物活性:				
Description	(±)-Huperzine A, an active Lycopodium alkaloid extracted from traditional Chinese herb, is a potent, selective and reversible acetylcholinesterase (AChE) inhibitor and has been widely used in China for the treatment of Alzheimer's disease (AD). IC50 value: Target: AChE (±)-Huperzine A exhibited protective effects against d-gal-induced hepatotoxicity and inflamm-aging by inhibiting AChE activity and via the activation of the cholinergic anti-inflammatory pathway. The (±)-Huperzine A mechanism might be involved in the inhibition of DAMPs-mediated NF-κB nuclear localization and activation. (±)-Huperzine A is a potential therapeutic agent for Alzheimer's disease.			
Solvent&Solubility	In Vitro: DMSO : ≥ 50 mg/mL (206.34 mM) * "≥" means soluble, but saturation unknown.			
		Solvent Mass Concentration	1 mg	5 mg
	Preparing	1 mM	4.1268 mL	20.6339 mL
	Stock Solutions	5 mM	0.8254 mL	4.1268 mL
		10 mM	0.4127 mL	2.0634 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 (10.32 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (10.32 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 (10.32 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (10.32 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 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中, 混合均匀。				



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	3.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (10.32 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (10.32 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。 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。
References	[1]. Burshtein G, Friedman M, Greenberg S, Hoffman A. Transepithelial Transport of a Natural Cholinesterase Inhibitor, Huperzine A, along the Gastrointestinal Tract: the Role of Ionization on Absorption Mechanism. <i>Planta Med.</i> 2013 Jan 23. [2]. Ruan Q, Liu F, Gao Z, et al. The anti-inflamm-aging and hepatoprotective effects of huperzine A in d-galactose-treated rats. <i>Mech Ageing Dev.</i> 2013 Jan 8. pii: S0047-6374(12)00182-0. [3]. Zhang HY. New insights into huperzine A for the treatment of Alzheimer's disease. <i>Acta Pharmacol Sin.</i> 2012 Sep;33(9):1170-5. [4]. Wang J, Zhang HY, Tang XC. Huperzine a improves chronic inflammation and cognitive decline in rats with cerebral hypoperfusion. <i>J Neurosci Res.</i> 2010 Mar;88(4):807-15. doi: 10.1002/jnr.22237. [5]. Park P, Schachter S, Yaksh T. Intrathecal huperzine A increases thermal escape latency and decreases flinching behavior in the formalin test in rats. <i>Neurosci Lett.</i> 2010 Feb 5;470(1):6-9. doi: 10.1016/j.neulet.2009.12.033.

源叶生物