



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyyssw@sina.com

产品名称: **Acamprosate Calcium**
CAS 号: **77337-73-6**
产品货号: **S86474**

生物活性:						
Description		Acamprosate calcium(Campral EC)是 GABA 受体激动剂和谷氨酸能系统调节剂。				
In Vitro		Acamprosate calcium (100-300 μM) 可在大鼠中脑神经元中抑制 NMDA 受体和电压依赖性 Ca2+ 通道的 Ca2+ 内流[7]。				
In Vivo	Acamprosate calcium (100-400 mg/kg, ip, single dose) 在小鼠悬尾试验模型中表现出抗抑郁样作用 [4]。					
	Acamprosate calcium (200 mg/kg, sc, twice a day for 3 days) 可改善酒精引起的认知缺陷, 在小鼠模型中表现出抗复发作用[6]。					
	Animal Model:	Mouse tail suspension test model[4].				
	Dosage:	100-400 mg/kg				
	Administration:	ip, single dose				
	Result:	Decreased the immobility time in the tail suspension test, decreased the locomotor activity of mice.				
	Animal Model:	Alcohol-induced cognitive deficits in mouse models[6]				
	Dosage:	200 mg/kg				
	Administration:	sc, twice a day for 3 days				
Result:	Improved the decrease in attention shifting and object recognition.					
Solvent&Solubility		细胞实验: H2O 中的溶解度 : 100 mg/mL (499.40 mM; 超声助溶) DMSO 中的溶解度 : < 1 mg/mL (insoluble or slightly soluble)				
Preparing Stock Solutions	Concentration	Solvent	Mass			
				1 mg	5 mg	10 mg
		1 mM	4.9940 mL24.9700 mL49.9401 mL			
		5 mM	0.9988 mL4.9940 mL9.9880 mL			
10 mM	0.4994 mL2.4970 mL4.9940 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 (sealed storage, away from moisture)。-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。 * 备注: 如您选择水作为储备液, 请稀释至工作液后, 再用 0.22 μm 的滤膜过滤除菌后使用。						
参考文献		[1]. Preuss UW. Commentary on the study: impact of depressive symptoms on future alcohol use in patients with co-occurring bipolar disorder and alcohol dependence: a prospective analysis in an 8-week randomized controlled trial of acamprosate (Prisciandaro et al.). Alcohol Clin Exp Res. 2012 Jun;36(6):967-9. doi: 10.1111/j.1530-0277.2012.01827.x. [2]. Witkiewitz K, Saville K, Hamreus K. Acamprosate for treatment of alcohol dependence: mechanisms, efficacy, and clinical utility. Ther Clin Risk Manag. 2012;8:45-53. [3]. Gahr M, et al. Relapse prevention in alcohol dependence: acamprosate and naltrexone as a combined pharmacological strategy.Nervenarzt. 2012 Aug 15. [4]. Palucha-Poniewiera A, Pilc A. Involvement of mGlu5 and NMDA receptors in the antidepressant-like				



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	effect of acamprosate in the tail suspension test. Prog Neuropsychopharmacol Biol Psychiatry. 2012 Oct 1;39(1):102-6. [5]. Hinton DJ, et al. Ethanol withdrawal-induced brain metabolites and the pharmacological effects of acamprosate in mice lacking ENT1. Neuropharmacology. 2012 Jun;62(8):2480-8. [6]. Pradhan G, et al., Calcium chloride mimics the effects of acamprosate on cognitive deficits in chronic alcohol-exposed mice. Psychopharmacology (Berl). 2018 Jul;235(7):2027-2040. [7]. Allgaier C, et al., Acamprosate inhibits Ca²⁺ influx mediated by NMDA receptors and voltage-sensitive Ca²⁺ channels in cultured rat mesencephalic neurones. Naunyn Schmiedebergs Arch Pharmacol. 2000 Nov;362(4-5):440-3 .
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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失效。

储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)。-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。

可选溶剂	质量 溶剂体积 浓度	1 mg	5 mg	10 mg	25 mg
H ₂ O	1 mM	4.9940 mL	24.9700 mL	49.9401 mL	124.8502 mL
	5 mM	0.9988 mL	4.9940 mL	9.9880 mL	24.9700 mL
	10 mM	0.4994 mL	2.4970 mL	4.9940 mL	12.4850 mL
	15 mM	0.3329 mL	1.6647 mL	3.3293 mL	8.3233 mL
	20 mM	0.2497 mL	1.2485 mL	2.4970 mL	6.2425 mL
	25 mM	0.1998 mL	0.9988 mL	1.9976 mL	4.9940 mL
	30 mM	0.1665 mL	0.8323 mL	1.6647 mL	4.1617 mL
	40 mM	0.1249 mL	0.6243 mL	1.2485 mL	3.1213 mL
	50 mM	0.0999 mL	0.4994 mL	0.9988 mL	2.4970 mL
	60 mM	0.0832 mL	0.4162 mL	0.8323 mL	2.0808 mL
	80 mM	0.0624 mL	0.3121 mL	0.6243 mL	1.5606 mL
	100 mM	0.0499 mL	0.2497 mL	0.4994 mL	1.2485 mL

备注: 如您选择水作为储备液,请稀释至工作液后,再用 0.22 μm 的滤膜过滤除菌后使用。