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产品名称: 丙环定盐酸盐

产品别名: **Procyclidine hydrochloride; (±)-Procyclidine hydrochlorid**

生物活性:					
Description	Procyclidine hydrochloride is a potent anti-cholinergic agent, and is also known to have NMDA antagonist properties.				
IC ₅₀ & Target	NMDA Receptor ^[1]				
In Vivo	Procyclidine widely used as anti-parkinsonian agents because of their anti-cholinergic action, is also known to have NMDA antagonist properties. Unlike other NMDA antagonists, these agents-because of their anti-cholinergic action-are devoid of neurotoxic side effects. Procyclidine alleviates thermal hyperalgesia in a dose dependent manner; when a marginally effective dose of the agent is combined with an ineffective dose of an alpha(2) adrenergic agonist (Clonidine or Guanabenz), the combination therapy provides effective and long-lasting relief from neuropathic pain[1].				
Solvent&Solubility	In Vitro: DMSO : 10.66 mg/mL (32.91 mM; Need ultrasonic and warming)				
	Preparing Stock Solutions	<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
		1 mM	3.0874 mL	15.4369 mL	30.8737 mL
		5 mM	0.6175 mL	3.0874 mL	6.1747 mL
		10 mM	0.3087 mL	1.5437 mL	3.0874 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。				
References	[1]. Jevtovic-Todorovic V, et al. Anti-parkinsonian agents procyclidine and ethopropazine alleviate thermal hyperalgesia in neuropathic rats. Neuropharmacology. 2003 May;44(6):739-48.				
实验参考:					
Animal Administration	Rats ^[1] Adult Sprague-Dawley female rats (weight 300-330 g) are used. Procyclidine given systemically causes a transient increase in locomotor activity (mainly non-ambulatory fine movements) in adult rats. Locomotor activity data (ambulations, fine movements) are evaluated using a two-way ANOVA to test whether co-administration of clonidine (0.025 mg/kg) with various doses of Procyclidine (10, 25, 50 and 75 mg/kg) altered the activity levels compared to the same doses of Procyclidine administered alone. A one-way ANOVA and subsequent comparisons are also conducted to establish whether the activity levels for each treatment group are different from saline controls.				
References	[1]. Jevtovic-Todorovic V, et al. Anti-parkinsonian agents procyclidine and ethopropazine alleviate thermal hyperalgesia in neuropathic rats. Neuropharmacology. 2003 May;44(6):739-48.				