



上海源叶生物科技有限公司
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产品名称: 盐酸去甲咪嗪
产品别名: **Desipramine hydrochloride**

生物活性:						
Description		Desipramine hydrochloride is an inhibitor of norepinephrine transporter (NET), 5-HT transporter (SERT) and dopamine transporter (DAT) with K _s of 4, 61 and 78,720 nM, respectively.				
IC ₅₀ & Target		K _i : 4 nM (NET), 61 nM (SERT), 78720 nM (DAT)[1]				
In Vivo		Treatment of rats with Desipramine hydrochloride for 14 days reduces norepinephrine transporter (NET) expression in a dose-dependent manner, as indicated by a reduction of the specific binding of ³ H-nisoxetine to the NET in preparations of cerebral cortex (F _(3,16) =4.33, p<0.05) and hippocampus (F _(3,16) =4.34, p<0.05). This NET down regulation is observed 2 days after discontinuation of chronic Desipramine hydrochloride treatment, a time when plasma and brain concentrations of Desipramine hydrochloride and desmethyldesipramine are undetectable (ie below the 25 ng detection limit of the assay)[2].				
Solvent&Solubility		In Vitro:				
		DMSO : 83.3 mg/mL (275.06 mM; Need ultrasonic and warming)				
		Solvent / Mass / Concentration		1 mg	5 mg	10 mg
		Preparing	1 mM	3.3021 mL	16.5104 mL	33.0207 mL
		Stock Solutions	5 mM	0.6604 mL	3.3021 mL	6.6041 mL
		10 mM	0.3302 mL	1.6510 mL	3.3021 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℃, 6 months; -20℃, 1 month。 -80℃ 储存时, 请在 6 个月内使用, -20℃ 储存时, 请在 1 个月内使用。						
References		[1]. Torres GE, et al. Plasma membrane monoamine transporters: structure, regulation and function. Nat Rev Neurosci. 2003 Jan;4(1):13-25. [2]. Zhao Z, et al. Norepinephrine transporter regulation mediates the long-term behavioral effects of the antidepressant desipramine. Neuropsychopharmacology. 2008 Dec;33(13):3190-200.				
实验参考:						
Animal Administration		Rats are anesthetized with ketamine (100 mg/kg) and xylazine (10 mg/kg) and implanted subcutaneously with osmotic minipumps preloaded with either vehicle (50% saline, 40% DMSO, and 10% ethanol) or Desipramine hydrochloride at a concentration that delivered 5, 10, or 15 mg/kg per day of the free base. Minipumps are removed, under anesthesia, 14 days later. Rats are tested for antidepressant-like behavior in the forced-swim test 2 to 8 days after pump removal and discontinuation of Desipramine hydrochloride treatment. Following the completion of the behavioral tests, rats are killed by decapitation, their brains are removed, and cerebral cortex and hippocampus are dissected for neurochemical analyses[2].				
		[1]. Torres GE, et al. Plasma membrane monoamine transporters: structure, regulation and function.				



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