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产品名称: **Loxapine**
产品别名: 洛沙平

生物活性:				
Description	Loxapine Succinate is a D2DR and D4DR inhibitor, serotonergic receptor antagonist and also a dibenzoxazepine anti-psychotic agent. IC50 value: Target: D2DR/D4DR; 5-HT receptor in vitro: In the presence of Loxapine, [3H]ketanserin binds to 5-HT2 receptor in Frontal cortex of brain in human and bovine with ki value of 6.2 nM and 6.6 nM, respectively. Loxapine has the rank order of potency for the various receptors appears to be as follows:5-HT2≥D4>>>D1>D2 in comparing competition experiments involving the human membranes [1]. Loxapine 0.2 μM, 2 μM and 20 μM reduces IL-1beta secretion by LPS-activated mixed glia cultures after 1 and 3 days of exposure. Loxapine in concentrations of 0.2 μM, 2 μM and 20 μM reduces IL-2 secretion in mixed glia cultures after 1 and 3 days of exposure, and additionally Loxapine decreases IL-1beta and IL-2 secretion in LPS-induced microglia cultures in concentrations of 2 μM, 10 μM and 20 μM [2]. in vivo: Loxapine (5 mg/kg) induces a very significant reduction (more than 50%) of serotonin (S2) receptor density after 4 weeks or 10 weeks of daily injection in the rat. Loxapine (5 mg/kg) does not change dopamine receptor density but greatly reduces serotonin receptor density by 47% in the brain of rats [3].			
	In Vitro: DMSO : ≥ 33.33 mg/mL (101.67 mM) * "≥" means soluble, but saturation unknown. <table><tr><td rowspan="4">Preparing <</td></tr></table>			
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	2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.63 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (7.63 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 生理盐水溶液中, 混合均匀。 3.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (7.63 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (7.63 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]. Singh AN, et al. A neurochemical basis for the antipsychotic activity of loxapine: interactions with dopamine D1, D2, D4 and serotonin 5-HT₂ receptor subtypes. J Psychiatry Neurosci. 1996 Jan;21(1):29-35. [2]. Labuzek K, et al. Chlorpromazine and loxapine reduce interleukin-1β and interleukin-2 release by rat mixed glial and microglial cell cultures. Eur Neuropsychopharmacol. 2005 Jan;15(1):23-30. [3]. Lee T, et al. Loxapine and clozapine decrease serotonin (5-HT₂) but do not elevate dopamine (D₂) receptor numbers in the rat brain. Psychiatry Res. 1984 Aug;12(4):277-85. [4]. Kalkman HO, et al. Clozapine inhibits catalepsy induced by olanzapine and loxapine, but prolongs catalepsy induced by SCH 23390 in rats. Naunyn Schmiedeberg Arch Pharmacol. 1997 Mar;355(3):361-4.

源叶生物