

产品名称：三氟拉嗪二盐酸盐

产品别名：盐酸三氟拉嗪；Trifluoperazine dihydrochloride

生物活性：

Description	Trifluoperazine dihydrochloride (TFP) is an antipsychotic phenothiazine agent and a selective α1-adrenergic receptor antagonist. Trifluoperazine dihydrochloride is also a potent dopamine D2 receptor inhibitor[1][2].																					
In Vitro	Trifluoperazine Dihydrochloride is a potent dopamine D2 receptor inhibitor used as an antipsychotic and an antiemetic. Target: Dopamine D2 Receptor Trifluoperazine Dihydrochloride is a potent dopamine D2 receptor inhibitor used as an antipsychotic and an antiemetic. Trifluoperazine inhibited in a dose-dependent manner the stimulation of glycogenolysis, gluconeogenesis, and ureogenesis due to alpha 1-adrenergic stimulation in rat hepatocytes. Trifluoperazine is much more potent at alpha 1- than at alpha 2-adrenergic receptors [1]. Trifluoperazine was not clearly different in terms of 'no substantial improvement' (n=1016, 27 RCTs, RR 1.06 CI 0.98 to 1.14) or leaving the study early (n=930, 22 RCTs, RR 1.15 CI 0.83 to 1.58). Almost identical numbers of people reported at least one adverse event (60%) in each group (n=585, 14 RCTs, RR 0.99 CI 0.87 to 1.13), although trifluoperazine was more likely to cause extrapyramidal adverse effects overall when compared to low potency antipsychotics such as chlorpromazine (n=130, 3 RCTs, RR 1.66 CI 1.03 to 2.67, NNH 6 CI 3 to 121). One small study (n=38) found no clear differences between trifluoperazine and the atypical drug, sulpiride [2].																					
In Vitro: H ₂ O : 50 mg/mL (104.08 mM; Need ultrasonic) DMSO : 50 mg/mL (104.08 mM; Need ultrasonic)	<table border="1"><thead><tr><th rowspan="2">Preparing Stock Solutions</th><th>Solvent / Mass Concentration</th><th>1 mg</th><th>5 mg</th><th>10 mg</th></tr></thead><tbody><tr><td>1 mM</td><td>2.0815 mL</td><td>10.4076 mL</td><td>20.8151 mL</td></tr><tr><td>5 mM</td><td>0.4163 mL</td><td>2.0815 mL</td><td>4.1630 mL</td></tr><tr><td>10 mM</td><td>0.2082 mL</td><td>1.0408 mL</td><td>2.0815 mL</td></tr></tbody></table>					Preparing Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg	10 mg	1 mM	2.0815 mL	10.4076 mL	20.8151 mL	5 mM	0.4163 mL	2.0815 mL	4.1630 mL	10 mM	0.2082 mL	1.0408 mL	2.0815 mL
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 Solvent&Solubility 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 (5.20 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.20 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)																						

	<p>Solubility: $\geq 2.5 \text{ mg/mL}$ (5.20 mM); Clear solution</p> <p>此方案可获得 $\geq 2.5 \text{ mg/mL}$ (5.20 mM, 饱和度未知) 的澄清溶液。</p> <p>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。</p> <p>3. 请依序添加每种溶剂: 10% DMSO → 90% corn oil</p> <p>Solubility: $\geq 2.5 \text{ mg/mL}$ (5.20 mM); Clear solution</p> <p>此方案可获得 $\geq 2.5 \text{ mg/mL}$ (5.20 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。</p> <p>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。</p>
References	<p>[1]. Huerta-Bahena, J., R. Villalobos-Molina, and J.A. Garcia-Sainz, Trifluoperazine and chlorpromazine antagonize alpha 1- but not alpha2- adrenergic effects. Mol Pharmacol, 1983. 23(1): p. 67-70.</p> <p>[2]. Marques, L.O., M.S. Lima, and B.G. Soares, Trifluoperazine for schizophrenia. Cochrane Database Syst Rev, 2004(1): p. CD003545.</p>



源叶生物