

产品名称：三氯噻嗪
产品别名：Trichlormethiazide

生物活性：																									
Description	<p>Trichlormethiazide is a thiazide diuretic with properties similar to those of hydrochlorothiazide. Target: Others Trichlormethiazide is a diuretic with properties similar to those of hydrochlorothiazide. It is usually administered for the treatment of oedema (including that which is associated with heart failure, hepatic cirrhosis and corticosteroid therapy) and hypertension. In veterinary medicine, trichlormethiazide can be combined with dexamethasone to be used on horses with mild swelling of distal limbs and general bruising. Trichlormethiazide appears to block the active reabsorption of chloride and possibly sodium in the ascending loop of Henle. This results in excretion of sodium, chloride and water, and thus acts as a diuretic [1-3].</p>																								
	<p>In Vitro:</p> <p>DMSO : 150 mg/mL (394.05 mM; Need ultrasonic)</p> <table> <tr> <th rowspan="2"></th><th rowspan="2">Solvent Mass Concentration</th><th>1 mg</th><th>5 mg</th><th>10 mg</th></tr> <tr> <th></th><th></th><th></th></tr> <tr> <td>Preparing</td><td>1 mM</td><td>2.6270 mL</td><td>13.1351 mL</td><td>26.2702 mL</td></tr> <tr> <td rowspan="2">Stock Solutions</td><td>5 mM</td><td>0.5254 mL</td><td>2.6270 mL</td><td>5.2540 mL</td></tr> <tr> <td>10 mM</td><td>0.2627 mL</td><td>1.3135 mL</td><td>2.6270 mL</td></tr> </table> <p>*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。</p> <p>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。</p> <p>In Vivo:</p> <p>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：</p> <p>——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</p> <p>1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.57 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 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。</p> <p>2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.57 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 生理盐水溶液中，混合均匀。</p> <p>3.请依序添加每种溶剂： 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (6.57 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.57 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</p>					Solvent Mass Concentration	1 mg	5 mg	10 mg				Preparing	1 mM	2.6270 mL	13.1351 mL	26.2702 mL	Stock Solutions	5 mM	0.5254 mL	2.6270 mL	5.2540 mL	10 mM	0.2627 mL	1.3135 mL
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Solvent&Solubility																									

	<p>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]. <u>Fuchs, M., B.E. Newman, and R.H. Seller, The clinical pharmacology of trichlormethiazide (Naqua). Curr Ther Res Clin Exp, 1961. 3: p. 116-24.</u></p> <p>[2]. <u>Reisman, E.E., Jr., Clinical experience with trichlormethiazide in edema. Angiology, 1963. 14: p. 59-63.</u></p> <p>[3]. <u>West, R.O., A clinical and statistical study of the effect of trichlormethiazide on blood pressure. Med Ann Dist Columbia, 1962. 31: p. 574-7.</u></p>



源叶生物