



上海源叶生物科技有限公司
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产品名称: 炔雌醇甲醚

产品别名: 美雌醇; Mestranol

生物活性:

Description	<p>Mestranol is the 3-methyl ether of ethinylestradiol. It was the estrogen used in many of the first oral contraceptives. Target: Estrogen Receptor/ERR Mestranol is absorbed very rapidly from the digestive tract and maximum plasma levels are attained in 1-4 hours, the majority at 1-2 hours. Detectable levels of mestranol are present 24 hours post-ingestion in 58% of subjects after a 50 µg dose and in 79% after a 100 µg dose. At all dose levels, highest plasma mestranol levels and area under the curve of plasma levels (AUC) occurred in Sri Lankan women, and lowest plasma levels in Nigerian women, even when corrected for body surface differences [1].</p>																								
	<p>In Vitro: DMSO : 33.33 mg/mL (107.37 mM; Need ultrasonic) H₂O : < 0.1 mg/mL (insoluble)</p> <table border="1" data-bbox="452 909 1356 1111"><thead><tr><th rowspan="2">Preparing</th><th rowspan="2">Stock Solutions</th><th>Solvent / Mass Concentration</th><th>1 mg</th><th>5 mg</th><th>10 mg</th></tr><tr><th>1 mM</th><th>3.2213 mL</th><th>16.1067 mL</th><th>32.2134 mL</th></tr></thead><tbody><tr><th></th><th>5 mM</th><td>0.6443 mL</td><td>3.2213 mL</td><td>6.4427 mL</td></tr><tr><th></th><th>10 mM</th><td>0.3221 mL</td><td>1.6107 mL</td><td>3.2213 mL</td></tr></tbody></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°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。</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 → 90% (20% SBE-β-CD in saline)</p> <p>Solubility: ≥ 2.5 mg/mL (8.05 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (8.05 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>2. 请依序添加每种溶剂： 10% DMSO → 90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (8.05 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (8.05 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>					Preparing	Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg	10 mg	1 mM	3.2213 mL	16.1067 mL	32.2134 mL		5 mM	0.6443 mL	3.2213 mL	6.4427 mL		10 mM	0.3221 mL	1.6107 mL	3.2213 mL
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References

- [1]. Goldzieher, J.W., T.S. Dozier, and A. de la Pena, Plasma levels and pharmacokinetics of ethynodiol-17 β -estradiol in various populations: II. Mestranol. Contraception, 1980. 21(1): p. 17-27.



源叶生物