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产品名称: MK-1064

产品别名: MK-1064

生物活性:

Description	<p>MK-1064 is a selective orexin 2 receptor antagonist (2-SORA) for the research of insomnia. target: 2-SORA</p> <p>[1] In vivo: MK-1064 promotes sleep and increases both rapid eye movement (REM) and non-REM (NREM) sleep in rats at OX2R occupancies higher than the range observed for dual orexin receptor antagonists. MK-1064 increases NREM and REM sleep in dogs without inducing cataplexy. The reference for animal administration is 30 mg/kg. [2]</p>																	
In Vitro: DMSO : 50 mg/mL (108.25 mM; Need ultrasonic) H ₂ O : < 0.1 mg/mL (insoluble)	<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>2.1650 mL</td><td>10.8249 mL</td><td>21.6497 mL</td></tr><tr><td>5 mM</td><td>0.4330 mL</td><td>2.1650 mL</td><td>4.3299 mL</td></tr><tr><td>10 mM</td><td>0.2165 mL</td><td>1.0825 mL</td><td>2.1650 mL</td></tr></tbody></table>	Preparing Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg	10 mg	1 mM	2.1650 mL	10.8249 mL	21.6497 mL	5 mM	0.4330 mL	2.1650 mL	4.3299 mL	10 mM	0.2165 mL	1.0825 mL	2.1650 mL
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<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 → 40% PEG300 → 5% Tween-80 → 45% saline</p> <p>Solubility: 2.5 mg/mL (5.41 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (5.41 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>																		
References	<p>[1]. Roecker AJ et al. Discovery of 5"-chloro-N-[(5,6-dimethoxypyridin-2-yl)methyl]-2,2':5',3"-terpyridine-3'-carboxamide (MK-1064): a selective orexin 2 receptor antagonist (2-SORA) for the treatment of insomnia. ChemMedChem. 2014 Feb;9(2):311-22.</p> <p>[2]. Gotter AL et al. Orexin 2 Receptor Antagonism is Sufficient to Promote NREM and REM Sleep from Mouse to Man. Sci Rep. 2016 Jun 3;6:27147.</p>																	