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产品名称:

# 1-[2-METHOXYPHENYL]-4-[4-(2-PHTHALIMIDO)-BUTYL]PIPERAZINE HYDROCHLORIDE

产品别名: NAN-190 hydrobromide

生物活性:

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Description	NAN-190 hydrobromide is a serotonin receptor 5-HT antagonist. NAN-190 is a selective antagonist of 5-HT1A. Target: 5-HT in vitro: NAN-190 is a 5-HT1A antagonist. [3] NAN-190 is a selective antagonist of 5-HT1A. [1] in vivo: NAN-190 (0.5 mg/kg, ip), as a 5-HT1A receptor antagonist, is injected concomitantly with the effective dose of fluoxetine. NAN-190 (5-HT1A receptor antagonist) reverses the catalepsy-improving effect of fluoxetine in 6-OHDA lesioned rats. [2]																	
Solvent&Solubility	<b>In Vitro:</b> <b>DMSO : 16.67 mg/mL (35.14 mM; Need ultrasonic)</b>																	
	<table><tr><td rowspan="4">Preparing Stock Solutions</td><td><div>Solvent / Mass / Concentration</div></td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>2.1080 mL</td><td>10.5399 mL</td><td>21.0797 mL</td></tr><tr><td>5 mM</td><td>0.4216 mL</td><td>2.1080 mL</td><td>4.2159 mL</td></tr><tr><td>10 mM</td><td>0.2108 mL</td><td>1.0540 mL</td><td>2.1080 mL</td></tr></table>	Preparing Stock Solutions	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg	10 mg	1 mM	2.1080 mL	10.5399 mL	21.0797 mL	5 mM	0.4216 mL	2.1080 mL	4.2159 mL	10 mM	0.2108 mL	1.0540 mL	2.1080 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><b>In Vivo:</b></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: ≥ 1.67 mg/mL (3.52 mM); Clear solution</p> <p>此方案可获得 ≥ 1.67 mg/mL (3.52 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 μL 16.699999 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)</p> <p>Solubility: ≥ 1.67 mg/mL (3.52 mM); Clear solution</p> <p>此方案可获得 ≥ 1.67 mg/mL (3.52 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 μL 16.699999 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>																	
	[1]. Shahane SA, et al. Detection of phospholipidosis induction: a cell-based assay in high-throughput and																	



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#### References

- high-content format. J Biomol Screen. 2014 Jan;19(1):66-76.
- [2]. Sharifi H, et al. Dose-Dependent Effect of Flouxetine on 6-OHDA-Induced Catalepsy in Male Rats: A Possible Involvement of 5-HT1A Receptors. Adv Pharm Bull. 2013;3(1):203-6.
- [3]. Citó MC, et al. Antidepressant-like effect of Hoodia gordonii in a forced swimming test in mice: evidence for involvement of the monoaminergic system. Braz J Med Biol Res. 2015 Jan;48(1):57-64.



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