



上海源叶生物科技有限公司
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产品名称: **rac-Vigabatrin Hydrochloride**
产品别名: 盐酸氨基己烯酸; **Vigabatrin Hydrochloride; γ -Vinyl-GABA hydrochloride**

生物活性:				
Description	Vigabatrin (Hydrochloride) (γ -Vinyl-GABA; Sabril) is a structural analog of the inhibitory neurotransmitter γ -aminobutyric acid (GABA) that irreversibly inhibits the catabolism of GABA by GABA transaminase. IC50 value: Target: GABA transaminase Clinical studies have shown that vigabatrin is superior to placebo in decreasing the frequency of infantile spasms. In tuberous sclerosis, vigabatrin may be considered the first-line treatment for IS. The mode of action is increasing concentrations of the inhibitory neurotransmitter GABA in the brain. A significant increase in seizure threshold was observed following systemic (i.p.) administration of high (600 or 1200 mg/kg) doses of vigabatrin. Bilateral microinjection of vigabatrin (10 μ g) into either the anterior or posterior SNr also increased seizure threshold, but less markedly than systemic treatment.			
Solvent&Solubility	In Vitro: H₂O : 33.33 mg/mL (201.24 mM; Need ultrasonic) DMSO : 27.5 mg/mL (166.04 mM; Need ultrasonic and warming)			
		Solvent Concentration	Mass	
	Preparing	1 mM	6.0379 mL	30.1896 mL
	Stock Solutions	5 mM	1.2076 mL	6.0379 mL
		10 mM	0.6038 mL	3.0190 mL
*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 (15.09 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (15.09 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μ L PEG300 中, 混合均匀; 向上述体系中加入 50 μ L Tween-80, 混合均匀; 然后继续加入 450 μ L 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) Solubility: ≥ 2.5 mg/mL (15.09 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (15.09 mM, 饱和度未知) 的澄清溶液。				



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	<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 \rightarrow 90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (15.09 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (15.09 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]. Broeer, et al. Vigabatrin for focal drug delivery in epilepsy: Bilateral microinfusion into the subthalamic nucleus is more effective than intranigral or systemic administration in a rat seizure model. <i>Neurobiology of Disease</i> (2012), 46(2), 362-376.</p> <p>[2]. Gaily, Eija Vigabatrin monotherapy for infantile spasms. <i>Expert Review of Neurotherapeutics</i> (2012), 12(3), 275-286.</p> <p>[3]. Russo, et al. Vigabatrin has antiepileptogenic and antidepressant effects in an animal model of epilepsy and depression comorbidity. <i>Behavioural Brain Research</i> (2011), 225(1), 373-376.</p> <p>[4]. Vigabatrin</p>

源叶生物