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产品名称: Eleclazine (hydrochloride)

产品别名: GS 6615 hydrochloride

生物活性:					
Description	Eleclazine hydrochloride is a novel late Na <sup>+</sup> current inhibitor with IC50 value of 0.7 uM. target: Na <sup>+</sup> current. IC50: 0.7 uM. In vitro: Eleclazine hydrochloride inhibits ATX-II enhanced late INa in ventricular myocytes, shorten the ATX-II induced prolongation of APD, MAPD, QT interval, and decreased spatiotemporal dispersion of repolarization and ventricular arrhythmias. Inhibition by GS-6615 of ATX-II enhanced late INa is strongly correlated with shortening of myocyte APD and isolated heart MAPD[1]. Selective inhibition of cardiac late INa with eleclazine hydrochloride confers dual protection against vulnerability to ischemia-induced AF and reduces atrial and ventricular repolarization abnormalities before and during adrenergic stimulation without negative inotropic effects. [2]				
	<b>In Vitro:</b> <b>DMSO : ≥ 100 mg/mL (221.32 mM)</b>  * "≥" means soluble, but saturation unknown.				
Solvent&Solubility	<b>Preparing Stock Solutions</b>	<div>Solvent / Mass / Concentration</div>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		1 mM	2.2132 mL	11.0661 mL	22.1322 mL
		5 mM	0.4426 mL	2.2132 mL	4.4264 mL
		10 mM	0.2213 mL	1.1066 mL	2.2132 mL
	<b>*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。</b>  <b>储备液的保存方式和期限</b> -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。				
	<b>In Vivo:</b>  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  <b>1.请依序添加每种溶剂：</b> 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline  <b>Solubility:</b> ≥ 2.5 mg/mL (5.53 mM); Clear solution  此方案可获得 ≥ 2.5 mg/mL (5.53 mM，饱和度未知) 的澄清溶液。  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。  <b>2.请依序添加每种溶剂：</b> 10% DMSO→ 90% (20% SBE-β-CD in saline)  <b>Solubility:</b> ≥ 2.5 mg/mL (5.53 mM); Clear solution  此方案可获得 ≥ 2.5 mg/mL (5.53 mM，饱和度未知) 的澄清溶液。  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 生理盐水水溶液中，混合均匀。				



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	<p>3.请依序添加每种溶剂: 10% DMSO →90% corn oil</p> <p>Solubility: <math>\geq 2.5</math> mg/mL (5.53 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (5.53 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 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 玉米油中, 混合均匀。</p>
References	<p>[1]. Rajamani S et al. The novel late Na<sup>+</sup> current inhibitor, GS-6615 (eleclazine) and its anti-arrhythmic effects in rabbit isolated heart preparations. Br J Pharmacol. 2016 Jul 23.</p> <p>[2]. Justo F et al. Inhibition of the cardiac late sodium current with eleclazine protects against ischemia-induced vulnerability to atrial fibrillation and reduces atrial and ventricular repolarization abnormalities in the absence and presence of concurrent adrenergic stimulation. Heart Rhythm. 2016 Sep;13(9):1860-7.</p>

源叶生物