

产品名称: **LX-4211**  
 产品别名: **Sotagliflozin**

生物活性:						
Description		Sotagliflozin (LX-4211) is a potent dual SGLT2/1 inhibitor. Antidiabetic agents.				
IC <sub>50</sub> & Target		SGLT1/2				
In Vitro		LX4211 enhanced urinary glucose excretion by inhibiting SGLT2-mediated renal glucose reabsorption; markedly and significantly improved multiple measures of glycemic control, including fasting plasma glucose, oral glucose tolerance, and HbA(1c); and significantly lowered serum triglycerides. LX4211 also mediated trends for lower weight, lower blood pressure, and higher glucagon-like peptide-1 levels. In a follow-up single-dose study in 12 patients with T2DM, LX4211 (300 mg) significantly increased glucagon-like peptide-1 and peptide YY levels relative to pretreatment values, probably by delaying SGLT1-mediated intestinal glucose absorption [1]. LX4211-treated mice and SGLT1-/- mice also had increased GLP-1 AUC values, decreased glucose-dependent insulintropic polypeptide (GIP) AUC values, and decreased blood glucose excursions during the 6 hours after a challenge with oral glucose alone [2].				
Solvent&Solubility		<b>In Vitro:</b>  DMSO : ≥ 100 mg/mL (235.33 mM)  * "≥" means soluble, but saturation unknown.				
			<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
		Preparing	1 mM	2.3533 mL	11.7664 mL	23.5327 mL
		Stock Solutions	5 mM	0.4707 mL	2.3533 mL	4.7065 mL
			10 mM	0.2353 mL	1.1766 mL	2.3533 mL
<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℃, 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。</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 <b>In Vitro</b> 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> <div><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 (5.88 mM); Clear solution</p><p>此方案可获得 ≥ 2.5 mg/mL (5.88 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 生理盐水水溶液中，混合均匀。</p></div> <div><p>2.请依序添加每种溶剂： 10% DMSO→ 90% corn oil</p><p>Solubility: ≥ 2.5 mg/mL (5.88 mM); Clear solution</p><p>此方案可获得 ≥ 2.5 mg/mL (5.88 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></div>						

	<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]. <a href="#">Zambrowicz B, et al. LX4211, a dual SGLT1/SGLT2 inhibitor, improved glycemic control in patients with type 2 diabetes in a randomized, placebo-controlled trial. Clin Pharmacol Ther. 2012 Aug;92(2):158-69.</a></p> <p>[2]. <a href="#">Powell DR, et al. LX4211 increases serum glucagon-like peptide 1 and peptide YY levels by reducing sodium/glucose cotransporter 1 (SGLT1)-mediated absorption of intestinal glucose. J Pharmacol Exp Ther. 2013 May;345(2):250-9.</a></p>



源叶生物