Sotagliflozin

Cat. No.:	HY-15516				
CAS No.:	1018899-04-1				
Molecular Formula:	C ₂₁ H ₂₅ ClO ₅ S				
Molecular Weight:	425				
Target:	SGLT				
Pathway:	Membrane Transporter/Ion Channel				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	2 years		
		-20°C	1 year		

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SOLVENT & SOLUBILITY

In Vitro	0.	DMSO : ≥ 100 mg/mL (235.29 mM) * "≥" means soluble, but saturation unknown.				
		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	2.3529 mL	11.7647 mL	23.5294 mL	
		5 mM	0.4706 mL	2.3529 mL	4.7059 mL	
	10 mM	0.2353 mL	1.1765 mL	2.3529 mL		
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	Solubility: ≥ 2.5 m 2. Add each solvent o	one by one: 10% DMSO >> 90% (20 g/mL (5.88 mM); Clear solution one by one: 10% DMSO >> 90% cor g/mL (5.88 mM); Clear solution	• • •			

BIOLOGICAL ACTIV	ТТҮ
Description	Sotagliflozin (LX-4211) is a potent dual SGLT2/1 inhibitor. Antidiabetic agents.
IC₅₀ & 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

Product Data Sheet

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SGLT1-mediated intestinal glucose absorption [1]. LX4211-treated mice and SGLT1-/- mice also had increased GLP-1 AUC values, decreased glucose-dependent insulinotropic polypeptide (GIP) AUC values, and decreased blood glucose excursions during the 6 hours after a challenge with oral glucose alone [2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Cell Biol. 2021 Jul;23(7):733-744.
- Curr Biol. 2022 Feb 15;S0960-9822(22)00137-3.
- Mol Metab. 2019 Jan;19:1-12.
- Oncogene. 2021 Jun 21.
- iScience. 2023 Jun 27.

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REFERENCES

[1]. 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.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA