Velagliflozin proline hydrate

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight:	HY-109018B 1661838-94-3 C ₂₈ H ₃₆ N ₂ O ₈ 528.59	OH OH OH
Target:	SGLT	
Pathway:	Membrane Transporter/Ion Channel	Un
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	1.8918 mL	9.4591 mL	18.9183 mL		
		5 mM	0.3784 mL	1.8918 mL	3.7837 mL		
		10 mM	0.1892 mL	0.9459 mL	1.8918 mL		
	Please refer to the sc	olubility information to select the ap	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (9.46 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (9.46 mM); Clear solution					
		 Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (9.46 mM); Clear solution 					

BIOLOGICAL ACTIVITY			
Description	Velagliflozin proline hydrate is the clinical form of Velagliflozin (HY-109018). Velagliflozin is an oral sodium-glucose cotransporter 2 (SGLT2) inhibitor with antidiabetic activity. Velagliflozin reduces renal glucose reabsorption and stimulates glycosuria, which lowers blood sugar and insulin concentrations ^[1] .		
IC ₅₀ & Target	SGLT2		
In Vitro	Velagliflozin is a sodium-glucose cotransporter 2 (SGLT2) inhibitor, with anti-diabetic activity ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

Product Data Sheet

Velagliflozin proline hydrate (1 mg/kg; p.o.; single dose) increases cholesterol, albumin, beta-hydroxybutyrate (BHB), nonesterified fatty acids (NEFA), and urinary glucose excretion, and decreases respiratory exchange ratio in cats^[1]. Velagliflozin proline hydrate (0.3 mg/kg; p.o.; once daily for 18 d) is well tolerated and can improve insulin disorders and prevent laminitis in ponies by reducing the high insulin response of dietary non-structural carbohydrates (NSC)^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

• Patent. US20200352968A1.

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REFERENCES

[1]. Hoenig M, et al. Effects of the sodium-glucose cotransporter 2 (SGLT2) inhibitor velagliflozin, a new drug with therapeutic potential to treat diabetes in cats. J Vet Pharmacol Ther. 2018 Apr;41(2):266-273.

[2]. Meier A, et al. The sodium-glucose co-transporter 2 inhibitor velagliflozin reduces hyperinsulinemia and prevents laminitis in insulin-dysregulated ponies. PLoS One. 2018 Sep 13;13(9):e0203655.

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

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