Ertugliflozin L-pyroglutamic acid

Cat. No.:	HY-15461A				
CAS No.:	1210344-83-	-4			
Molecular Formula:	C ₂₇ H ₃₂ CINO ₁₀				
Molecular Weight:	566				
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		

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 125 mg/mL (220.85 mM) H ₂ O : 5 mg/mL (8.83 mM; ultrasonic and warming and heat to 60°C) * "≥" means soluble, but saturation unknown.						
Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	1 mM	1.7668 mL	8.8339 mL	17.6678 mL			
	5 mM	0.3534 mL	1.7668 mL	3.5336 mL			
		10 mM	0.1767 mL	0.8834 mL	1.7668 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.67 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.67 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.67 mM); Clear solution						

Product Data Sheet





In Vitro	Ertugliflozin L-pyroglutamic acid (PF-04971729 L-pyroglutamic acid) demonstrates >2000-fold selectivity for SGLT2 inhibition (relative to SGLT1) in vitro ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Ertugliflozin L-pyroglutamic acid (PF-04971729 L-pyroglutamic acid) reveals a concentration-dependent glucosuria after oral administration to rats ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

• Biochem Pharmacol. 2016 Feb 1;101:27-39.

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REFERENCES

[1]. Mascitti V, et al. Discovery of a clinical candidate from the structurally unique dioxa-bicyclo[3.2.1]octane class of sodium-dependent glucose cotransporter 2 inhibitors. J Med Chem. 2011 Apr 28;54(8):2952-60.

[2]. Miao Z, et al. Pharmacokinetics, metabolism, and excretion of the antidiabetic agent ertugliflozin (PF-04971729) in healthy male subjects. Drug Metab Dispos. 2013 Feb;41(2):445-56.

[3]. Kalgutkar AS, et al. Preclinical species and human disposition of PF-04971729, a selective inhibitor of the sodium-dependent glucose cotransporter 2 and clinical candidate for the treatment of type 2 diabetes mellitus. Drug Metab Dispos. 2011 Sep;39(9):1609-19.

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

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