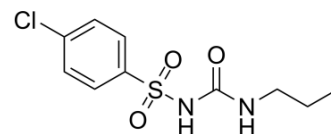


Chlorpropamide

Cat. No.:	HY-B1429		
CAS No.:	94-20-2		
Molecular Formula:	C ₁₀ H ₁₃ ClN ₂ O ₃ S		
Molecular Weight:	276.74		
Target:	Na ⁺ /K ⁺ ATPase		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (361.35 mM)

H₂O : < 0.1 mg/mL (insoluble)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		3.6135 mL	18.0675 mL	36.1350 mL
	5 mM		0.7227 mL	3.6135 mL	7.2270 mL
	10 mM		0.3614 mL	1.8068 mL	3.6135 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 2.5 mg/mL (9.03 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.5 mg/mL (9.03 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.5 mg/mL (9.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Chlorpropamide is an oral antihyperglycemic agent used for the treatment of non-insulin-dependent diabetes mellitus (NIDDM). Target: Chlorpropamide belongs to the sulfonylurea class of insulin secretagogues, which act by stimulating β cells of the pancreas to release insulin. Chlorpropamide is not recommended for the treatment of NIDDM as it increases blood pressure and the risk of retinopathy. Up to 80% of the single oral dose of

chlorpropramide is metabolized, likely in the liver; 80-90% of the dose is excreted in urine as unchanged drug and metabolites.

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

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