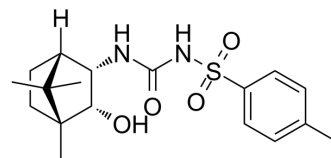


Glibornuride

Cat. No.:	HY-17451	
CAS No.:	26944-48-9	
Molecular Formula:	C ₁₈ H ₂₆ N ₂ O ₄ S	
Molecular Weight:	366.48	
Target:	Potassium Channel	
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 : 250 mg/mL (682.17 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7287 mL	13.6433 mL	27.2866 mL
		5 mM	0.5457 mL	2.7287 mL	5.4573 mL
10 mM		0.2729 mL	1.3643 mL	2.7287 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.68 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.68 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Glibornuride is a blocker of ATP-sensitive K ⁺ channels (K _{ATP} channel) with a pK _i of 5.75 ^[1] . Antidiabetic agent ^[2] .
IC ₅₀ & Target	pK _i : 5.75 (K _{ATP} channel) ^[1]
In Vivo	Administration of Glibornuride (5 mg/kg; gavage, daily for 28 days) for 28 days causes an increase in body weights in the diabetic groups in Swiss albino rats ^[2] . Treatment with Glibornuride for 28 days decreases the serum uric acid levels in diabetic rats ^[2] . Administration of Glibornuride for 28 days, insignificantly increases the liver lipid peroxidation levels in diabetic rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	6-6.5-month-old male Swiss Albino rats, weighing 150-200 g ^[2]
Dosage:	5 mg/kg
Administration:	Given by gavage, daily for 28 days
Result:	Administration for 28 days caused an increase in body weights in the diabetic groups. Treatment for 28 days decreased the serum uric acid levels in diabetic rats.

REFERENCES

[1]. Löffler C, et al. Pharmacological characterization of the sulphonylurea receptor in rat isolated aorta. *Br J Pharmacol.* 1997 Feb;120(3):476-80.

[2]. Ozsoy-Sacan O, et al. Effects of parsley (*Petroselinum crispum*) extract versus Glibornuride on the liver of streptozotocin-induced diabetic rats. *J Ethnopharmacol.* 2006 Mar 8;104(1-2):175-81.

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

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