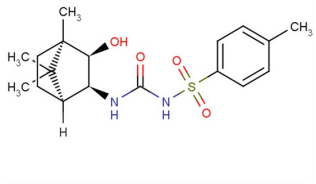
Data Sheet (Cat.No.T15385)

TargetMol
A DRUG SCREENING EXPERT

Glibornuride

Chemical Properties



CAS No.:	26944-48-9
Formula:	C18H26N2O4S
Molecular Weight:	366.48
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Glibornuride is an ATP-sensitive K+ channels (KATP channel) blocker (pKi: 5.75). It is an antidiabetic agent.
Targets(IC_{50})	KATP channel: (pki) 5.75
In vivo	Administration of Glibornuride (5 mg/kg; gavage, daily for 28 days) results in an enhance in body weights in the diabetic groups in Swiss albino rats. Administration of Glibornuride for 28 days, obviously enhances the liver lipid peroxidation levels in diabetic rats. Treatment with Glibornuride (28 days) reduces serum uric acid levels in diabetic rats [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.729 mL	13.643 mL	27.287 mL
5 mM	0.546 mL	2.729 mL	5.457 mL
10 mM	0.273 mL	1.364 mL	2.729 mL
50 mM	0.055 mL	0.273 mL	0.546 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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.

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