



Product Information

Product ID G4532
CAS No. 21187-98-4
Chemical Name N-[[[Hexahydrocyclopenta[c]pyrrol-2(1H)-yl]amino]- carbonyl]-4-methylbenzenesulfonamide

Synonym Diamicon, Glimicon, Nordalex

Formula C₁₅H₂₁N₃O₃S

Formula Wt. 323.41

Melting Point 180-182 °C

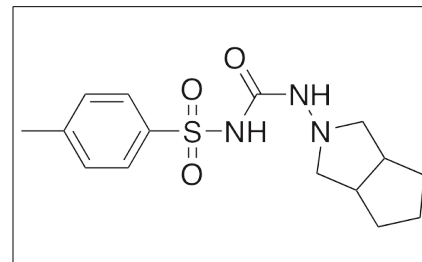
Purity ≥98%

Solubility Insoluble in water. Soluble in dichloromethane, chloroform, methanol, DMSO.

Store Temp Ambient

Ship Temp Ambient

Description Gliclazide is a sulfonylurea compound that inhibits sulfonylurea 1 (SUR1) receptors, exhibiting anti-diabetic and antioxidative activities. Inhibition of these receptors closes K⁺ ion channels, inducing cell membrane depolarization, altering Ca²⁺ homeostasis, and stimulating insulin release. In vitro, gliclazide inhibits H₂O₂-induced mitochondrial damage and apoptosis, decreasing oxidative stress. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G4532	1 g	\$51.10
G4532	5 g	\$99.20
G4532	10 g	\$165.40

References Proks P, de Wet H, Ashcroft FM. Molecular mechanism of sulphonylurea block of K(ATP) channels carrying mutations that impair ATP inhibition and cause neonatal diabetes. *Diabetes*. 2013 Nov;62(11):3909-19. PMID: 23835339.

Sliwinska A, Rogalska A, Szwed M, et al. Gliclazide may have an antiapoptotic effect related to its antioxidant properties in human normal and cancer cells. *Mol Biol Rep*. 2012 May;39(5):5253-67. PMID: 22183301.

Lawrence CL, Proks P, Rodrigo GC, et al. Gliclazide produces high-affinity block of KATP channels in mouse isolated pancreatic beta cells but not rat heart or arterial smooth muscle cells. *Diabetologia*. 2001 Aug;44(8):1019-25. PMID: 11484080.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.