



LKT Laboratories, Inc.

Glipizide

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Product Information

Product ID G4634

CAS No. 29094-61-9

Chemical Name N-[2-[4-[[[(Cyclohexylamino)carbonyl]amino]sulfonyl]phenyl]ethyl-5-methylpyrazinecarboxamide

Synonym Glibenese, Blucotrol, Minidiab, Ozidia

Formula C₂₁H₂₇N₅O₄S

Formula Wt. 445.54

Melting Point 208-209 °C

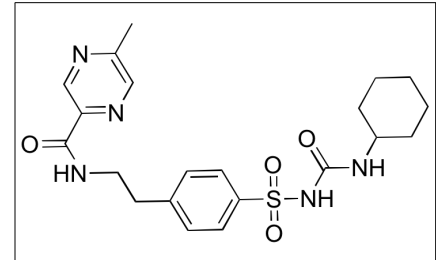
Purity ≥98%

Solubility Soluble in DMSO (48mg/mL)
or methanol (1.9mg/mL)..

Store Temp Ambient

Ship Temp Ambient

Description Glipizide is a second generation sulfonylurea that exhibits anti-diabetic activity. Glipizide inhibits ATP-dependent K⁺ channels in β cells, forcing cells to remain depolarized, increasing Ca²⁺ influx and insulin secretion. Glipizide also decreases the metabolic clearance rate of insulin.



Bulk quantities available upon request

Product ID	Size
G4634	500 mg
G4634	1 g
G4634	5 g

References Barzilai N, Groop PH, Groop L, et al. A novel mechanism of glipizide sulfonylurea action: decreased metabolic clearance rate of insulin. *Acta Diabetol.* 1995 Dec;32(4):273-8. PMID: 8750768.

Weinhaus AJ, Poronnik P, Cook DI, et al. Insulin secretagogues, but not glucose, stimulate an increase in [Ca²⁺]_i in the fetal rat beta-cell. *Diabetes.* 1995 Jan;44(1):118-24. PMID: 7529202.

Heurteaux C, Bertaina V, Widmann C, et al. K⁺ channel openers prevent global ischemia-induced expression of c-fos, c-jun, heat shock protein, and amyloid beta-protein precursor genes and neuronal death in rat hippocampus. *Proc Natl Acad Sci U S A.* 1993 Oct 15;90(20):9431-5. PMID: 8415718.

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