LKT Laboratories, Inc.

Glipizide

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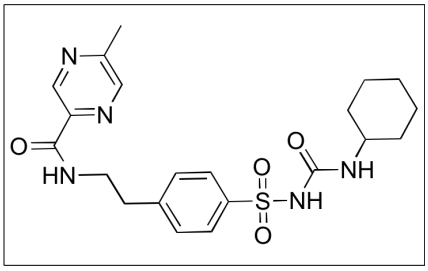
Product Information

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 $C_{21}H_{27}N_5O_4S$
Formula Wt. 445.54
Melting Point 208-209°C
Purity ≥98%
Solubility Soluble in DMSO (48mg/mL) or methanol (1.9mg/mL)..

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
G4634	500 mg	$59.50
G4634	1 g	$102.10
G4634	5 g	$297.30

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 ß cells, forcing cells to remain depolarized, increasing Ca2+ influx and insulin secretion. Glipizide also decreases the metabolic clearance rate of insulin.

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.