



LKT Laboratories, Inc.

Glimepiride

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Product Information

Product ID G4535

CAS No. 93479-97-1

Chemical Name 3-Ethyl-2,5-dihydro-4-methyl-N-[2-[4-[[[(trans-4-methylcyclohexyl)amino]carbonyl]amino]sulfonyl]phenyl]ethyl]-2-oxo-1H-pyrrole-1-carboxamide

Synonym HOE-490, Amarel

Formula C₂₄H₃₄N₄O₅S

Formula Wt. 490.62

Melting Point 212-215°C

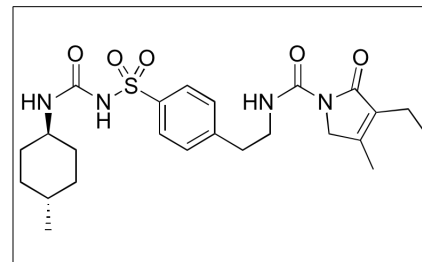
Purity ≥98%

Solubility Soluble in DMSO
(25mg/mL).

Store Temp 4°C

Ship Temp Ambient

Description Glimepiride is a second generation sulfonylurea that exhibits anti-diabetic activity. Glimepiride inhibits ATP-dependent K⁺ channels in β cells, forcing cells to remain depolarized, increasing Ca²⁺ influx and insulin secretion. Glimepiride also exhibits neuroprotective benefit, decreasing expression and activity of BACE1 and amyloid-β (Aβ) in neurons in a PPARγ-dependent manner. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G4535	500 mg	\$63.70
G4535	1 g	\$102.00
G4535	5 g	\$420.40

References Liu F, Wang Y, Yan M, et al. Glimepiride attenuates Aβ production via suppressing BACE1 activity in cortical neurons. *Neurosci Lett.* 2013 Dec 17;557 Pt B:90-4. PMID: 24184877.

Bashir MI, Pathan MF, Raza SA, et al. Role of oral hypoglycemic agents in the management of type 2 diabetes mellitus during Ramadan. *Indian J Endocrinol Metab.* 2012 Jul;16(4):503-7. PMID: 22837904.

Abdelmoneim AS, Hasenbank SE, Seubert JM, et al. Variations in tissue selectivity amongst insulin secretagogues: a systematic review. *Diabetes Obes Metab.* 2012 Feb;14(2):130-8. PMID: 21923736.

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