



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** C<sub>24</sub>H<sub>34</sub>N<sub>4</sub>O<sub>5</sub>S

**Formula Wt.** 490.62

**Melting Point** 212-215°C

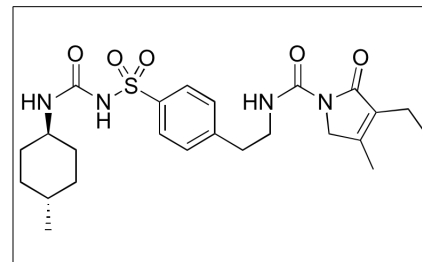
**Purity** ≥98%

**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<sup>+</sup> channels in β cells, forcing cells to remain depolarized, increasing Ca<sup>2+</sup> 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.



**Bulk quantities available upon request**

**Product ID** **Size**

G4535 500 mg

G4535 1 g

G4535 5 g

**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.