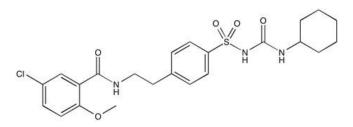


## Catalog # 10-1325 Glyburide

CAS# 10238-21-8 Glibenclamide

5-chloro-N-[2-[4-[[[(cyclohexylamino)carbonyl]amino]suphonyl]phenyl]ethyl]-2-methoxybenzamide Lot # X101240



Second generation oral hypoglycemic agent. Acts via ATP-dependent K<sup>+</sup> channel (K<sub>ir</sub>6, K<sub>ATP</sub>) block<sup>1</sup>. Inhibits K<sub>ir</sub>6 currents in the pancreas, causing an increase in intracellular Ca<sup>2+</sup> and insulin secretion. Also inhibits recombinant CFTR CI- channels with an IC<sub>50</sub> of 20  $\mu$ M<sup>2</sup>. Cell permeable.

- 1) Brogden et al. (1979), Glipizide: a review of its pharmacological properties and therapeutic use; Drugs, 18 329
- 2) Sheppard and Welsh (1992), Effect of ATP-sensitive K+ channel regulators on cystic fibrosis transmembrane conductance regulator chloride currents; J. Gen. Physiol., **100** 573

## PHYSICAL DATA

Molecular Weight:	494.01
Molecular Formula:	C₂₃H₂ଃCIN₃O₅S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 45 mg/ml) or Ethanol (up to 2 mg/ml, with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase.
	Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462 www.focusbiomolecules.com