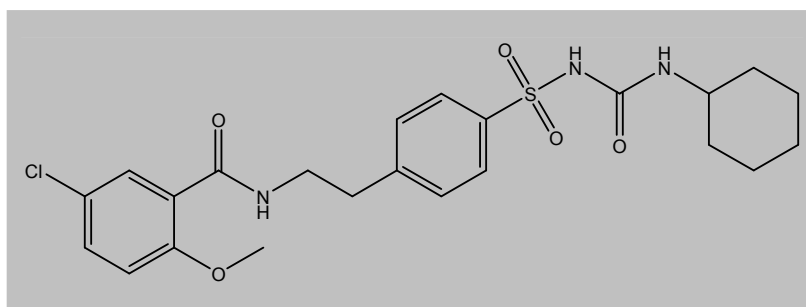


**Certificate Of Analysis**  
**Quality Control Testing and Research Application**COA Preparation Date: 19/09/2013  
COA Revision Date: 19/09/2016

**Product:** Glibenclamide  
**Cat. No.:** BG0207  
**Batch No.:** 0207BG/01  
**Chemical Name:** 5-Chloro-*N*-[2-[4-[[[(cyclohexylamino)carbonyl]amino]sulfonyl]phenyl]ethyl]-2-methoxybenzamide; Glyburide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>23</sub>H<sub>28</sub>ClN<sub>3</sub>O<sub>5</sub>S  
**Batch Molecular Weight:** 494.0  
**CAS No.:** [10238-21-8]  
**Physical Appearance:** White solid  
**Melting Point:** 161 - 164° C  
**Solubility:** Soluble to 5 mM in ethanol or to 100 mM in DMSO  
**Storage:** RT  
**Batch Molecular Structure:**



**Product Description:** An antidiabetic Sulfonylurea derivative. It blocks ATP-dependent K<sup>+</sup> channels K<sub>ATP</sub> and CFTR Cl<sup>-</sup> channels (IC<sub>50</sub> = 20 μM, recombinant channels). Inhibits K<sub>ATP</sub> currents in the pancreas, causing an increase in intracellular Ca<sup>2+</sup> and Insulin secretion. Inhibitor (IC<sub>50</sub> = 4 nM) of ATP-dependent K<sup>+</sup> currents of mouse pancreatic B-cells.

**References:** 1. Luzi and Pozza (1994) Acta Diabetol 34:239; 2. Robertson et al. (1990) J Med Chem 33:1529; 3. Sheppard and Welsh (1992) J Gen Physiol 100:573; 4. Zunkler et al. (1988) Naunyn-Schmiedeberg's Arch Pharmacol 337:225

- CAUTION - Not fully tested. For Research use only. Not for human use. -



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**BG0207 Glibenclamide**

**2. ANALYTICAL DATA**

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: > 99% (complies).

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