



LKT Laboratories, Inc.

Glyburide

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Product Information

Product ID G470962

CAS No. 10238-21-8

Chemical Name 5-chloro-N-[2-[4-(cyclohexylcarbamoylsulfamoyl)phenyl]ethyl]-2-methoxybenzamide

Synonym Glibenclamide

Formula C₂₃H₂₈ClN₃O₅S

Formula Wt. 494.0

Melting Point

Purity ≥98%

Solubility

Store Temp 4° C

Ship Temp Ambient

Description Glyburide (glibenclamide) is a second-generation sulfonylurea that closes ATP-sensitive potassium (KATP) channels by binding the SUR1 subunit, stimulating insulin secretion and serving as a widely used tool to study B-cell physiology and KATP channel function. Beyond its canonical mechanism, glyburide has been identified as an inhibitor of the NLRP3 inflammasome, blocking caspase-1 activation and IL-1β secretion in macrophages. It is used in research studying both pancreatic B-cell signaling and innate immune inflammatory pathways.

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
G470962	1 g	\$65.00
G470962	5 g	\$95.00
G470962	25 g	\$165.00
G470962	100 g	\$275.00

- References**
1. Lamkanfi M, Mueller JL, Vitari AC, et al. Glyburide inhibits the cryopyrin/Nalp3 inflammasome. *J Cell Biol.* 2009;187(1):61-70. PMID: 19805629.
 2. Ashcroft FM, Rorsman P. KATP channels and islet hormone secretion: new insights and controversies. *Nat Rev Endocrinol.* 2013;9(11):660-9. PMID: 24042464.
 3. Bhatt DL, Nissen SE. Sulfonylureas: underutilized and underappreciated? *Ann Intern Med.* 2012;157(12):909-10. PMID: 23247940.
 4. Bryant CE, Fitzgerald KA. Molecular mechanisms involved in inflammasome activation. *Trends Cell Biol.* 2009;19(9):455-64. PMID: 19716302.
 5. Seino S, Miki T. Physiological and pathophysiological roles of ATP-sensitive K⁺ channels. *Prog Biophys Mol Biol.* 2003;81(2):133-76. PMID: 12565699.

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