Glyburide (USP)
[Diabeta; Glibenclamide]

AG-CR1-3613-G001 1 g
AG-CR1-3613-G005 5 g
AG-CR1-3613-G010 10 g

Formula: C_{23}H_{28}ClIN_{3}O_{5}S
MW: 494.0
CAS: 10238-21-8
Merck Index: 14: 4478

Handling / Storage
Shipping: AMBIENT
Short Term Storage: +4°C
Long Term Storage: -20°C

Keep cool and dry.

Use / Stability
Stable for at least 2 years after receipt when stored at -20°C.

MSDS available at www.adipogen.com or upon request.

Product Specifications
Purity: ≥98%
Appearance: White to off-white solid.
Solubility: Soluble in DMSO. Slightly soluble (<1mg/ml) in ethanol (gentle warming).

Product Description

- Antidiabetic compound.
- Binds to and activates the ATP-sensitive potassium channels (KATP) inhibitory regulatory subunit sulfonylurea receptor 1 (SUR1).
- Causes cell membrane depolarization and opening of voltage-dependent calcium channel.
- Increases intracellular calcium and stimulates insulin secretion in β cells
- NLRP3 inflammasome inhibitor.
- Broad-spectrum ATP-binding cassette (ABC) transporter inhibitor.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. MATERIAL SAFETY DATA: Review the complete Material Safety Data Sheet before use.

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www.adipogen.com
• Shown to have anti-leishmanial activity.
• Potential inhibitor of collagenases.

Product Specific References


3. Antidiabetic sulfonylureas control action potential properties in heart cells via high affinity receptors that are linked to ATP-dependent K+ channels: M. Fosset, et al.; J. Biol. Chem. 263, 7933 (1988)

4. Sensitivity of a renal K+ channel (ROMK2) to the inhibitory sulfonylurea compound glibenclamide is enhanced by coexpression with the ATP-binding cassette transporter cystic fibrosis transmembrane regulator: C.M. McNicholas, et al.; PNAS 93, 8083 (1996)


