

Glipizide

Catalog No: tcsc2239



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

29094-61-9

Formula:

$C_{21}H_{27}N_5O_4S$

Pathway:

Membrane Transporter/Ion Channel

Target:

Potassium Channel

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

CP 28720;K 4024

Observed Molecular Weight:

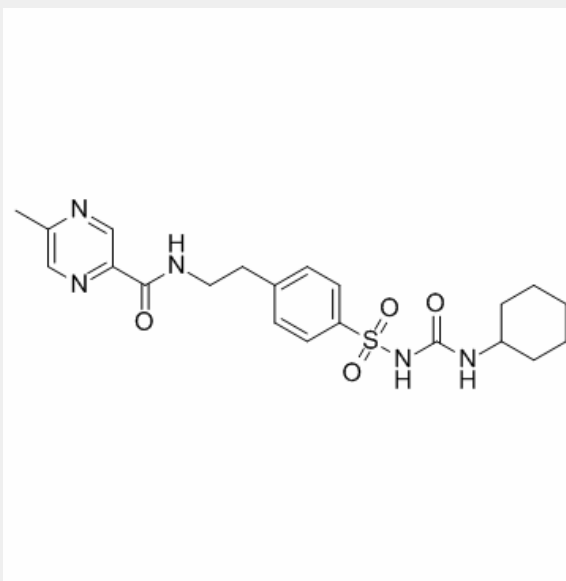
445.54

Product Description

Glipizide(K 4024; CP 2872) is used to treat high blood sugar levels caused by a type of diabetes mellitus called type 2 diabetes.

Target: Potassium Channel

Glipizide is an oral rapid- and short-acting anti-diabetic drug from the sulfonylurea class. It is classified as a second generation sulfonylurea, which means that it undergoes enterohepatic circulation. Mechanism of action is produced by blocking potassium channels in the beta cells of the islets of Langerhans. By partially blocking the potassium channels, the cell remains depolarized, increasing the time the cell spends in the calcium release stage, which results in signaling leading to calcium influx. The increase in calcium will initiate more insulin release from each beta cell. Sulfonylureas may also cause the decrease of serum glucagon and potentiate the action of insulin at the extrapancreatic tissues [1, 2].



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