

# Glibenclamide

Catalog No: tcsc1075



## Available Sizes

Size: 1g

Size: 5g



## Specifications

### CAS No:

10238-21-8

### Formula:

$C_{23}H_{28}ClN_3O_5S$

### Pathway:

Autophagy;Membrane Transporter/Ion Channel

### Target:

Autophagy;Potassium Channel

### Purity / Grade:

>98%

### Solubility:

DMSO :  $\geq 60$  mg/mL (121.46 mM); H<sub>2</sub>O :

### Alternative Names:

Glyburide

### Observed Molecular Weight:

494

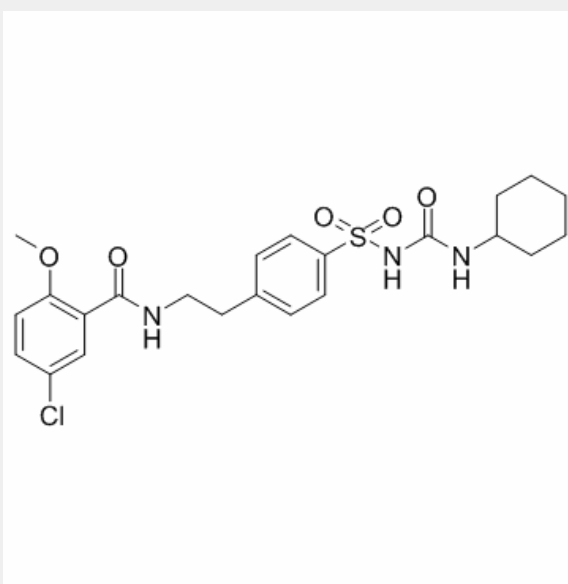
## Product Description

Glibenclamide(Glyburide) is a sulfonylurea compound that modulates insulin production.

IC50 value:

Target:

Sulfonylureas bind to ATP-dependent K<sup>+</sup> channels in beta cells of the pancreas, depolarizing them and stimulating the release of Ca<sup>2+</sup>, which in turn stimulates insulin production. Glibenclamide, a sulphonylurea oral hypoglycaemic agent is a widely used antagonist of cromakalim-activated K<sup>+</sup> channels in smooth muscle. Binding of Gli to SUR produces the closure of KATP channels and the inhibition of their activity. Glibenclamide is widely used for treatment of type 2-diabetes and it has been signaled as antiproliferative in several tumor cell lines.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!