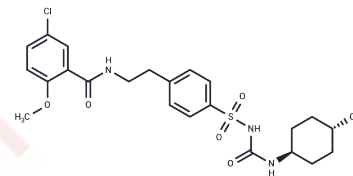


## rac-trans-4-hydroxy Glyburide

## Chemical Properties

CAS No. :	23155-00-2
Formula:	C <sub>23</sub> H <sub>28</sub> ClN <sub>3</sub> O <sub>6</sub> S
Molecular Weight:	510.0
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	rac-trans-4-hydroxy Glyburide, an active metabolite of the SUR1/Kir6.2 sulfonylurea inhibitor glyburide, is formed by the cytochrome P450 (CYP) isoforms CYP2C8 and CYP2C9. It inhibits glyburide binding to rat brain synaptosomes at high and low affinity sites of SUR1/Kir6.2 with IC <sub>50</sub> values of 0.95 and 100 nM, respectively.
Targets(IC <sub>50</sub> )	Others,Potassium Channel

## Solubility Information

Solubility	Methanol: Slightly soluble DMSO: Slightly soluble ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9608 mL	9.8039 mL	19.6078 mL
5 mM	0.3922 mL	1.9608 mL	3.9216 mL
10 mM	0.1961 mL	0.9804 mL	1.9608 mL
50 mM	0.0392 mL	0.1961 mL	0.3922 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

- Zharikova, O.L., Fokina, V.M., Nanovskaya, T.N., et al. Identification of the major human hepatic and placental enzymes responsible for the biotransformation of glyburide *Biochem. Pharmacol.* 78(12)1483-1490(2009)
- Hill, R.A., Rudra, S., Peng, B., et al. Hydroxyl-substituted sulfonylureas as potent inhibitors of specific [3H]glyburide binding to rat brain synaptosomes *Bioorg. Med. Chem.* 11(9)2099-2113(2003)

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