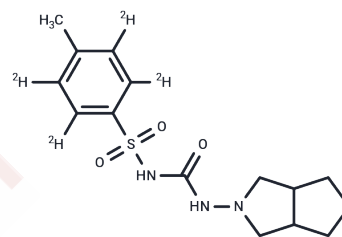


Gliclazide-D4

Chemical Properties

CAS No. :	1185039-30-8
Formula:	C ₁₅ H ₁₇ D ₄ N ₃ O ₃ S
Molecular Weight:	327.44
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	Gliclazide-D4 is intended for use as an internal standard for the quantification of gliclazide by GC- or LC-MS. Gliclazide (T1527) is a sulfonylurea and an inhibitor of pancreatic β -cell ATP-sensitive potassium (KATP) channels. It is selective for pancreatic β -cell over cardiac and arterial smooth muscle cell KATP channels. Gliclazide (T1527) (5 μ M) increases insulin-induced glucose uptake and glucose transporter 4 (GLUT4) translocation to the plasma membrane in a differentiated 3T3L1 adipocyte model of insulin resistance induced by hydrogen peroxide. Gliclazide (T1527) (5 and 10 μ g/ml) reduces LDL oxidation by human aortic smooth muscle cells (HSMCs), decreasing TBARS content and 8-isoprostane levels. It also decreases oxidized LDL-induced HSMC proliferation and monocyte adhesion when used at concentrations ranging from 1 to 10 μ g/ml. Gliclazide (T1527) (5 mg/kg) reduces serum glucose levels and increases glucose uptake by isolated rat hindquarters in a model of diabetes induced by streptozotocin (STZ).
Targets(IC50)	Potassium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.054 mL	15.270 mL	30.5399 mL
5 mM	0.6108 mL	3.054 mL	6.108 mL
10 mM	0.3054 mL	1.527 mL	3.054 mL
50 mM	0.0611 mL	0.3054 mL	0.6108 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481