

Product Data Sheet

Product Name: Chlorpropamide

Cat. No.: GC17086

Chemical Properties

Cas. No. 94-20-2

Chemical Name 1-(4-chlorophenyl)sulfonyl-3-propylurea

SMILES CCCNC(=O)NS(=O)(=O)C1=CC=C(C=C1)Cl

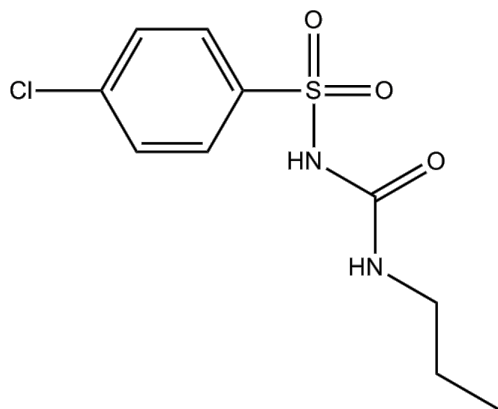
Formula $C_{10}H_{13}ClN_2O_3S$ M.Wt 276.74

Solubility $\geq 14\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Chlorpropamide is an oral antihyperglycemic agent used for the treatment of non-insulin-dependent diabetes mellitus (NIDDM). Target: Chlorpropamide belongs to the sulfonylurea class of insulin secretagogues, which act by stimulating β cells of the pancreas to release insulin. Chlorpropamide is not recommended for the treatment of NIDDM as it increases blood pressure and the risk of retinopathy. Up to 80% of the single oral dose of chlorpropamide is metabolized, likely in the liver; 80-90% of the dose is excreted in urine as unchanged drug and metabolites.

Caution: Product has not been fully validated for medical applications. For research use only.

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