Product Data Sheet

Chemical Properties

**Product Name:** Phenformin HCl

**Cas No.:** 834-28-6

**M.Wt:** 241.72

**Formula:** C10H16ClN5

**Chemical Name:** 1-(diaminomethylidene)-2-(2-phenylethyl)guanidine;hydrochloride

**Canonical SMILES:** C1=CC=C(C=C1)CCN=C(N)N=C(N)N.Cl

**Solubility:** Soluble in DMSO > 10 mM

**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.

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

Biological Activity

**Targets:** Others

**Pathways:** Others >> Others

**Description:**
Phenformin HCl is a hydrochloride salt of the biguanidine drug phenformin. Phenformin is the biguanide class that displays anti-diabetic activity. In 5 patients with diabetes mellitus, phenformin reduced the blood glucose values and glycosuria. In 4 of 5 patients, cholesterol and total lipid levels were dropped. Also, Phenformin had no impact on glucose, nor the insulin levels after intravenous glucose loading.

**Reference:**
[1]. Geldermans CA, Terpstra J, Krans HM. The effect of phenformin-HCl on patients with diabetes
Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.