
Product Data Sheet

Product Name: 4-Chlorophenylguanidine hydrochloride

Cat. No.: GC13337

Chemical Properties

Cas. No. 14279-91-5

Chemical Name 2-(4-chlorophenyl)guanidine;hydrochloride

SMILES C1=CC(=CC=C1N=C(N)N)Cl.ClFormula $C_7H_8ClN_3.HCl$ M.Wt 206.07

Solubility Soluble to 100 mM in Water Storage Store at RT

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**

4-Chlorophenylguanidine hydrochloride is a potent and selective inhibitor of urokinase [1].

Urokinase is a serine protease. Its primary physiological substrate is plasminogen, which is an inactive form of plasmin. Urokinase plays an important role in vascular diseases and cancer.

4-Chlorophenylguanidine hydrochloride inhibited urokinase and trypsin with K_i value of 6.07 μM and 120 μM , respectively [1].

Reference:

[1]. Yang H, Henkin J, Kim KH, et al. Selective inhibition of urokinase by substituted phenylguanidines: quantitative structure-activity relationship analyses. J Med Chem, 1990, 33(11): 2956-2961.

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

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