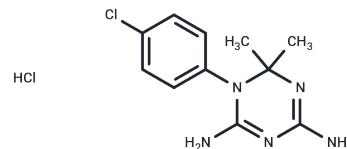


## Cycloguanil hydrochloride

## Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 152-53-4                                                 |
| Formula:          | C <sub>11</sub> H <sub>14</sub> ClN <sub>5</sub> .ClH    |
| Molecular Weight: | 288.18                                                   |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



## Biological Description

|                            |                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | Cycloguanil hydrochloride (Chloroguanide Triazine) is an active metabolite of the antimalarial compound proguanil. It acts as an inhibitor of dihydrofolate reductase (K <sub>i</sub> : 0.3 and 1.5 nM for Plasmodium and human forms, respectively). |
| Targets(IC <sub>50</sub> ) | Parasite, Drug Metabolite                                                                                                                                                                                                                             |

## Solubility Information

|            |                                                                                                                                          |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 20 mg/mL (69.4 mM),<br>H <sub>2</sub> O: 5 mg/mL (17.35 mM),<br>( $< 1$ mg/mL refers to the product slightly soluble or insoluble) |
|------------|------------------------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.4701 mL | 17.3503 mL | 34.7005 mL |
| 5 mM  | 0.694 mL  | 3.4701 mL  | 6.9401 mL  |
| 10 mM | 0.347 mL  | 1.735 mL   | 3.4701 mL  |
| 50 mM | 0.0694 mL | 0.347 mL   | 0.694 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.

## Reference

Wright JD, et al. The role of S-mephenytoin hydroxylase (CYP2C19) in the metabolism of the antimalarial biguanides. Br J Clin Pharmacol. 1995 Apr;39(4):441-4.

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