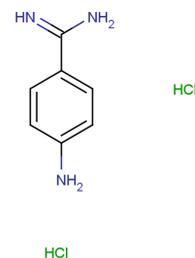


## 4-Aminobenzamidine dihydrochloride

### Chemical Properties

|                   |                   |                   |
|-------------------|-------------------|-------------------|
| CAS No. :         | 2498-50-2         |                   |
| Formula:          | C7H11Cl2N3        |                   |
| Molecular Weight: | 208.09            |                   |
| Appearance:       | no data available |                   |
| Storage:          | Powder            | -20°C for 3 years |
|                   | In solvent        | -80°C for 2 years |



### Biological Description

|               |   |
|---------------|---|
| Description   | 4-Aminobenzamidine dihydrochloride (p-Aminobenzamidine dihydrochloride) is a strong trypsin inhibitor and a relatively weak inhibitor of urokinase type plasminogen activator (uPA) ( $K_i = 82 \mu\text{M}$ ). 4-Aminobenzamidine can inhibit growth of a human prostate tumor in SCID mice [1] [2]. |
| Targets(IC50) | Serine Protease   |

### Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 30.6mg/mL (147.1mM), ultrasonic and warming and heat to 80°C (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 4.8056 mL | 24.0281 mL | 48.0561 mL |
| 5 mM  | 0.9611 mL | 4.8056 mL  | 9.6112 mL  |
| 10 mM | 0.4806 mL | 2.4028 mL  | 4.8056 mL  |
| 50 mM | 0.0961 mL | 0.4806 mL  | 0.9611 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

Nguyen AL, et al. The development and application of a new affinity partitioning system for enzyme isolation and purification. *Enzyme Microb Technol.* 1990 Sep;12(9):663-8.

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