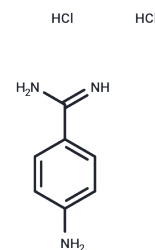


## p-Aminobenzamidine dihydrochloride

## Chemical Properties

CAS No. :	2498-50-2
Formula:	C7H11Cl2N3
Molecular Weight:	208.088
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## 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)	PAI-1, Serine Protease

## Solubility Information

Solubility	DMSO: 50 mg/mL (240.28 mM), Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (4.81 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### 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.

Billström A, et al. The urokinase inhibitor p-aminobenzamidine inhibits growth of a human prostate tumor in SCID mice. *Int J Cancer.* 1995 May 16;61(4):542-7.

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