

Benzamidine hydrochloride

Chemical Properties

CAS No. : 1670-14-0

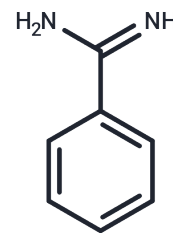
Formula: C₇H₉ClN₂

Molecular Weight: 156.61

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

HCl



Biological Description

Description	Benzamidine hydrochloride (Benzamidine HCl) is a reversible inhibitor of serine proteases, including trypsin, plasmin, and thrombin (K _i of 35, 350, and 220 μM, respectively).
Targets(IC50)	Serine Protease,Serine/threonin kinase

Solubility Information

Solubility	DMSO: 142.8 mg/mL (911.82 mM),Sonication is 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 (6.39 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	6.3853 mL	31.9264 mL	63.8529 mL
5 mM	1.2771 mL	6.3853 mL	12.7706 mL
10 mM	0.6385 mL	3.1926 mL	6.3853 mL
50 mM	0.1277 mL	0.6385 mL	1.2771 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

Pilon A M , Campos W G , Silva C R , et al. Protease inhibitory, insecticidal and deterrent effects of the trypsin-inhibitor benzamidine on the velvetbean caterpillar in soybean[J]. Anais Da Academia Brasileira De Ciências, 2018.

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