



Store at 2-8°C.



## Contents

- Product Manual
- Benzamidine hydrochloride hydrate

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## Introduction

Benzamidine HCl is a reversible inhibitor of trypsin, trypsin-like enzymes, and serine proteases. A concentration of approximately 1 mM is used for general protease inhibition. To inhibit proteases from yeast, a range of 0.5 to 4.0 mM is used and it is for the most part interchangeable with pepstatin A.

In addition to being a strong competitive inhibitor of trypsin, benzamidine HCl has been also shown to be a strong competitive inhibitor of thrombin and plasmin. It was also found to be as effective as aprotinin in the prevention of glucagon degradation in human plasma.

## Preparation

Benzamidine HCl is soluble in water and alcohol. Solubility testing in water at a concentration of 50 mg/ml yields a clear solution with heating. Benzamidine HCl is sensitive to oxidation. It is recommended to prepare solutions fresh each time in degassed water prior to use. However, frozen aliquots stored under inert gas, to exclude air, may be stable for a short time. Insufficient information is available to assess the shelf-life of a frozen solution.

## Specification

Name	Benzamidine hydrochloride hydrate
CAS NO	206752-36-5
Formula	$C_6H_5C(=NH)NH_2\cdot HCI\cdot xH_2O$
M.W	156.61
Purity	<u>&gt;</u> 99%
Application	Reversible inhibitor of trypsin, trypsin-like proteins and serine proteases
Solubility	water: 50 mg/mL, clear to slightly hazy, colorless to faintly yellow