

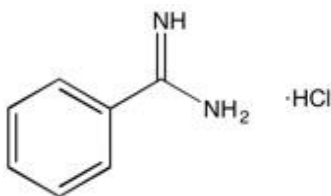
**Catalog # 10-2687**

**Benzamidine HCl**

CAS# 1670-14-0

Amidinobenzene hydrochloride

Lot # X101313



Reversible inhibitor of trypsin and trypsin-like enzymes and other serine proteases.<sup>1-3</sup> Concentration used for general protease inhibition is 1 mM. Also a competitive inhibitor of thrombin and plasmin. May be added to blood samples to prevent proteolytic degradation of various peptide analytes such as glucagon<sup>4</sup> and TRH<sup>5</sup>.

- 1) Markwardt *et al.* (1968) *Comparative studies on the inhibition of trypsin, plasmin, and thrombin by derivatives of benzylamine and benzamide*; Eur. J. Biochem., **6** 502
- 2) Deutscher *et al.* (1990), *Maintaining protein stability*; Methods Enzymol., **182** 83
- 3) Jaswinski *et al.* (1990), *Preparations of extracts from yeast*; Methods Enzymol., **182** 154
- 4) Ensink *et al.* (1972), *Use of Benamidine as a proteolytic inhibitor in the radioimmunoassay of glucagon in plasma*; J. Clin. Endocrinol. Metab., **35** 463
- 5) Jeffcoate *et al.* (1974), *Use of benzamide to prevent the destruction of thyrotropin-release hormone (TRH) by blood*; Endocrinol. Metab, **38** 155

**PHYSICAL DATA**

Molecular Weight:	156.61
Molecular Formula:	C <sub>7</sub> H <sub>8</sub> N <sub>2</sub> · HCl
Purity:	97% by TLC
	NMR: (Conforms)
Solubility:	Water (up to 50 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at ambient temperature for up to 2 years from the date of purchase. Sensitive to oxidation when exposed to air. Make fresh solutions daily. Do not store the compound in solution.

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