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## DATASHEET

Amiloride hydrochloride

### Product overview

<b>Name</b>	Amiloride hydrochloride
<b>Cat No</b>	HB1010
<b>Biological action</b>	Blocker
<b>Purity</b>	>98%
<b>Description</b>	Na <sup>+</sup> channel blocker

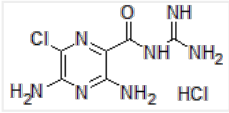
### Biological Data

<b>Biological description</b>	Na <sup>+</sup> channel blocker. Acid sensing ion channel (ASIC) blocker, protects cells from metabolic acidosis injury associated with ischemia. Inhibits TRPP3-mediated Ca <sup>2+</sup> channel transport (IC <sub>50</sub> = 143 μM). Shows antiviral and anticancer actions.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in water (10mM, gentle warming)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	3,5-Diamino- <i>N</i> -(aminoiminomethyl)-6-chloropyrazinecarboxamide hydrochloride
<b>Molecular Weight</b>	266.09
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>6</sub> H <sub>8</sub> ClN <sub>7</sub> O.HCl
<b>CAS Number</b>	2016-88-8
<b>PubChem identifier</b>	16230
<b>SMILES</b>	C1(=C(N=C(C(=N1)Cl)N)N)C(=O)N=C(N)N.Cl
<b>InChi</b>	InChI=1S/C6H8ClN7O.ClH/c7-2-4(9)13-3(8)1(12-2)5(15)14-6(10)11;/h(H4,8,9,13)(H4,10,11,14,15);1H
<b>InChiKey</b>	ACHKKGDWZVCSNH-UHFFFAOYSA-N
<b>MDL number</b>	MFC03703482

### References

#### Evaluation of the role of nitric oxide in acid sensing ion channel mediated cell death.

Jetti SK *et al* (2010) Nitric Oxide 22(3)

**PubMedID** [20045740](#)

#### Inhibition of TRPP3 channel by amiloride and analogs.

Dai XQ *et al* (2007) Mol Pharmacol 72(6)

**PubMedID** [17804601](#)

**Amiloride and its analogs as tools in the study of ion transport.**

Kleyman TR *et al* (1988) J Membr Biol 105(1)

**PubMedID** [2852254](#)

**Amiloride and guggulsterone suppression of esophageal cancer cell growth in vitro and in nude mouse xenografts.**

Guan B *et al* (2014) Front Biol (Beijing) 9(1)

**PubMedID** [24999355](#)

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