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# DATASHEET

## Histamine dihydrochloride

### Product overview

<b>Name</b>	Histamine dihydrochloride
<b>Cat No</b>	HB2803
<b>Biological action</b>	Agonist
<b>Purity</b>	>99%
<b>Description</b>	Endogenous histamine receptor agonist

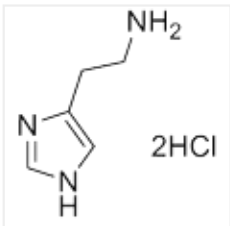
### Biological Data

<b>Biological description</b>	Endogenous histamine receptor agonist. Shows vasodilatory, bronchoconstrictory, immunomodulatory, anti-tumor and cytoprotective actions.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature (desiccate)
<b>Solubility overview</b>	Soluble in water (100 mM) and in DMSO (100 mM)
<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>	2-(1H-imidazol-5-yl)ethanamine dihydrochloride
<b>Molecular Weight</b>	184.07
<b>Chemical structure</b>	 The chemical structure shows an imidazole ring with a 2-ethylamino group (-CH2-CH2-NH2) attached at the 5-position. The structure is shown as a dihydrochloride salt, indicated by "2HCl" next to the molecule.
<b>Molecular Formula</b>	C <sub>5</sub> H <sub>9</sub> N <sub>3</sub> ·2HCl
<b>CAS Number</b>	56-92-8
<b>PubChem identifier</b>	5818
<b>SMILES</b>	C1=C(NC=N1)CCN.Cl.Cl
<b>InChi</b>	InChI=1S/C5H9N3.2ClH/c6-2-1-5-3-7-4-8-5;/h3-4H,1-2,6H2,(H,7,8);2*1H
<b>InChiKey</b>	PPZMYIBUHIPZOS-UHFFFAOYSA-N
<b>MDL number</b>	MFCD00012703

### References

#### Histamine and its receptors.

Parsons ME *et al* (2006) Br J Pharmacol 147 Suppl 1

**PubMedID** [16402096](#)

**Histamine dihydrochloride protects against early alcohol-induced liver injury in a rat model.**

Hornyak SC *et al* (2003) *Inflammation* 27(5)

**PubMedID** [14635789](#)

**Monotherapy with histamine dihydrochloride suppresses in vivo growth of a rat sarcoma in liver and subcutis.**

Rizell M *et al* (2002) *Anticancer Res* 22(4)

**PubMedID** [12174868](#)

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