

## Certificate Of Analysis

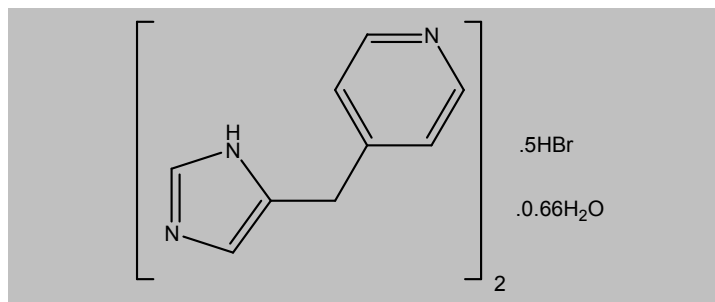
### Quality Control Testing and Research Application

COA Preparation Date: 23/10/2014  
COA Revision Date: 23/10/2017

**Product:** Immethridine dihydrobromide  
**Cat. No.:** BN0272  
**Batch No.:** 0272BN/01  
**Chemical Name:** 4-(1*H*-Imidazol-4-ylmethyl)pyridine dihydrobromide

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $2C_9H_9N_3 \cdot 5HBr \cdot 0.66H_2O$   
**Batch Molecular Weight:** 734.82  
**CAS No.:** [87976-03-2]  
**Physical Appearance:** Off-white solid  
**Melting Point:** 255° C (decomp.)  
**Solubility:** Soluble to 100 mM in water  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**Product Description:** Potent and highly selective histamine H<sub>3</sub> receptor agonist (EC<sub>50</sub> = 0.18 nM). Displays 300-fold selectivity over the H<sub>4</sub> receptors (K<sub>i</sub> values are 0.85 and 245 nM for H<sub>3</sub> and H<sub>4</sub> receptors respectively). Does not bind to H<sub>1</sub> or H<sub>2</sub> receptors at concentrations up to 10 μM.

**References:** 1. Kitbunnandaj et al. (2004) J Med Chem 47:2414

- CAUTION - Not fully tested. For Research use only. Not for human use. -



**BIOTREND** Chemicals AG  
Unterdorfstr. 21  
CH-8602 Wangen / Zurich  
Switzerland  
Tel + 41 44 805 76 76  
Fax +41 44 805 76 77  
Email: [techserv@biotrend.ch](mailto:techserv@biotrend.ch)  
[www.biotrend.ch](http://www.biotrend.ch)

**Certificate Of Analysis**  
**Quality Control Testing and Research Application**

COA Preparation Date: 23/10/2014  
COA Revision Date: 23/10/2017

**BN0272 Immethridine dihydrobromide**

**2. ANALYTICAL DATA**

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: > 98% (complies).

- CAUTION - Not fully tested. For Research use only. Not for human use. –