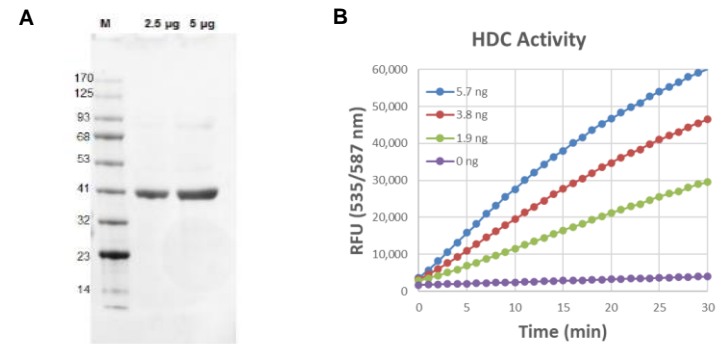


# Histidine Decarboxylase, *M. morgani* Recombinant

<b>CATALOG NO:</b>	P1442-20	20 µg
	P1442-100	100 µg
<b>ALTERNATE NAMES:</b>	HDC	
<b>ACCESSION #:</b>	P05034 (2-378 aa)	
<b>SOURCE:</b>	<i>M. morgani</i>	
<b>PURITY:</b>	≥ 90% by SDS-PAGE	
<b>SPECIFIC ACTIVITY:</b>	≥ 500 mU/mg based on its conversion of histidine to histamine by using BioVision's Histidine Decarboxylase Activity Assay Kit (Catalog # K5082)	
<b>MOL. WEIGHT:</b>	42.8 kDa with N-terminal 6x-His tag	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Proprietary Buffer	
<b>STORAGE CONDITIONS:</b>	Store at -20 °C. Aliquot and store the reconstituted enzyme at -20 °C and use within 2 months. Avoid repeated freeze-thaw cycles	
<b>RECONSTITUTION:</b>	Reconstitute the lyophilized protein in 50 mM Sodium Phosphate, 30% Glycerol and 5 mM BME at 0.5 mg/ml. Incubate the reconstituted protein at 25 °C for 15 minutes	
<b>UNIT DEFINITION:</b>	One unit of HDC is defined as the amount of enzyme that will convert 1.0 µmole of histidine to histamine per minute at 37 °C under the assay conditions	

**DESCRIPTION:**

Histidine decarboxylase is an enzyme that catalyzes the decarboxylation of histidine to form histamine. HDC is the primary source of histamine in most mammals and eukaryotes and this metabolite cannot be produced by any other known enzyme. Histamine is important for signal transduction, immune response, and gastric acid secretion.



**Fig. A. SDS-PAGE (4-20%) recombinant HDC:** Recombinant protein loaded under reducing conditions and stained with Coomassie Blue. Lane M-MW marker.

**Fig. B. Enzyme activity assay:** The activity of HDC is measured by its ability to convert histidine to histamine by using BioVision's Histidine Decarboxylase Activity Assay Kit (Cat. No.K2082)

**RELATED PRODUCTS:**

- Histamine Assay Kit Colorimetric (Cat. No. K506)
- Histamine Assay Kit Fluorometric (Cat. No. K386)
- HDC antibody (Cat. No. 3691)
- HDC Blocking Peptide (Cat. No. 3691BP)

**FOR RESEARCH USE ONLY! Not to be used in humans.**