Histidine Decarboxylase, *M. morganii* Recombinant

07/19

CATALOG NO:
P1442-20 20 µg
P1442-100 100 µg

ALTERNATE NAMES: HDC

MOL. WT. 42.8 kDa with N-terminal 6x-His tag

SOURCE: M. morganii

PURITY: >90% SDS-PAGE.

FORM: Lyophilized

FORMULATION: Proprietary Buffer

RECONSTITUTION: 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.

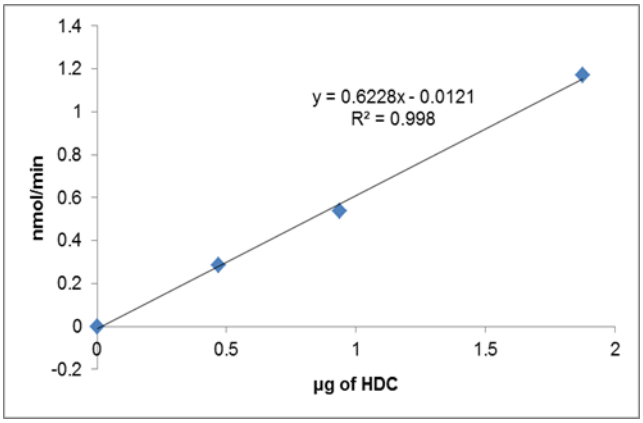
SPECIFIC ACTIVITY: This enzyme has a specific activity of ≥ 600 mU/mg based on its conversion of histidine to histamine, which can be detected calorimetrically at OD 450 nm using BioVision's Histamine Assay Kit (K506).

UNIT DEFINITION: One unit is the amount of enzyme that will convert 1.0 µmole of histidine to histamine per minute at pH 8.0 and 37˚C.

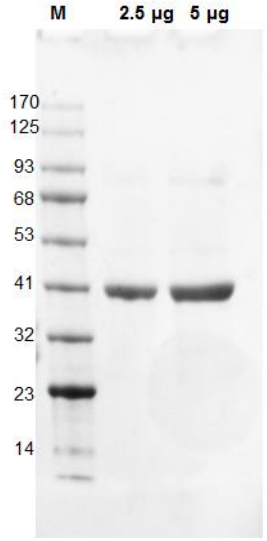
STORAGE CONDITIONS: Store at -20°C. Aliquot and store the reconstituted enzyme at -20°C and use within 2 months. Avoid repeated freeze-thaw cycles.

DESCRIPTION: Histidine decarboxylase is the only enzyme that is known to generate histamine. Histamine is important for signal transduction, immune response, and gastric acid secretion.

AMINO ACID SEQUENCE: aa 1 – 378



Enzyme activity assay: The activity of HDC is 600 mU/mg based on its ability to convert histidine to histamine. Activity was assay using BioVision's Histamine Assay Kit (K506).



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

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 on humans.