

Recombinant Full Length Human HDC Protein, GST-tagged

Cat. No. HDC-3435HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human HDC full-length ORF (ADR83232.1, 1 a.a. - 662 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	662 amino acids
Description	The biogenic amine histamine is an important modulator of numerous physiologic processes, including neurotransmission, gastric acid secretion, and smooth muscle tone. The biosynthesis of histamine from histidine is catalyzed by the enzyme L-histidine decarboxylase (HDC; EC 4.1.1.22). This homodimeric enzyme is a pyridoxal phosphate (PLP)-dependent decarboxylase and is highly specific for its histidine substrate.[supplied by OMIM
Molecular Mass	72.9 kDa
AA Sequence	MMEPEEYRERGREMVDYICQYLSTVRERRVMPDVQPGYLRAQLPESAPEDPDSW DSIFGDIERIIMPGVVHWQSPHMHAYYPALTSWPSLLGDMLADAINCLGFTWASSPA CTELEMNVMDWLAKMLGLPEHFLHHHPSSQGGGV LQSTVSESTLIALLAARKNKILE MKTSEPDADDESCLNARLVAYASDQAHSSVEKAGLISLVKMKFLPVDDNFSLRGEAL QKAI EEDKQRGLVPVFCATLGTGVC AFDCLSELGPICAREGLWLHIDAAYAGTAF LCPEFRGFLKGIEYADSFTFNPSKMMVHFDCTGFVVKDKYKLQQTFSVNPYYLRH ANSGVATDFMHWQIPLSRRFRSVKLVWFVIRSFVGNLQAHVRHGTETEMAKYFESLVR

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

NDPSFEIPAKRHLGLVVFRLKGPNCLETENVLKEIAKAGRLFLIPATIQDKLIIRFTVTSQ
 FTTRDDILRDWNLIRDAATLILSQHCTSQPSPRVGNLISQIRGARAWACGTSLQSVSG
 AGDDPVQARKIIKQPQRVGAGPMKRENGLHLETLLDPVDDCFSEEAPDATKHKLSS
 FLFSYLSVQTKKKTVRSLSCNSVPVSAQKPLPTEASVKNGGSSRVRIFSRFPEDMM
 MLKKSFAFKLIKFYSPVPSFPECSSQCGLQLPCCPLQAMV

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name
[HDC histidine decarboxylase \[Homo sapiens \]](#)

Official Symbol
[HDC](#)

Synonyms
 HDC; histidine decarboxylase; MGC163399;

Gene ID
[3067](#)

mRNA Refseq
[NM_002112](#)

Protein Refseq
[NP_002103](#)

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MIM	142704
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UniProt ID	P19113
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