

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 CTELEMNVMDWLAKMLGLPEHFLHHHPSSQGGGVLQSTVSESTLIALLAARKNKILE MKTSEPDADESCLNARLVAYASDQAHSSVEKAGLISLVKMKFLPVDDNFSLRGEAL QKAIEEDKQRGLVPVFVCATLGTGVCADFCLSELGPICAREGLWLHIDAAYAGTAF LCPEFRGFLKGIEYADSFTFNPSKWMMVHFDCTGFVVKDKYKLQQTFSVNPYLRH ANSGVATDFMHWQIPLSRRFRSVKLVWFVIRSFVKNLQAHVRHGTETMAKYFESLVR

 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
 FTTRDDILRDWNLIRDAATLILSQHCTSQPSPRVGNLISQIRGARAWACGTSLSQSVSG
 AGDDPVQARKIIKQPQRVGAGPMKRENGLHLETLLDPVDDCFSEEAPDATKHKLSS
 FLFSYLSVQTKKKTVRSLSCNSVPVSAQKPLPTEASVKNGGSSRVRFISRFPEMM
 MLKKSAFKKLIKFYSPVSPFPECSSQCGLQLPCCPLQAMV

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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