

Recombinant Human IDE Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. IDE-4809H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	IDE MS Standard C13 and N15-labeled recombinant protein (NP_004960) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	1-1306 aa
Description	This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulins activity, as well as participating in intercellular peptide signalling by degrading diverse peptides such as glucagon, amylin, bradykinin, and kallidin. The preferential affinity of this enzyme for insulin results in insulin-mediated inhibition of the degradation of other peptides such as beta-amyloid. Deficiencies in this protein's function are associated with Alzheimer's disease and type 2 diabetes mellitus but mutations in this gene have not been shown to be causative for these diseases. This protein localizes primarily to the cytoplasm but in some cell types localizes to the extracellular space, cell membrane, peroxisome, and mitochondrion. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described but have not been experimentally verified.
Molecular Mass	117.8 kDa

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AA Sequence

MRYRLAWLLHPALPSTFRSVLGARLPPPERLCGFQKKTYSKMNNPAIKRIGNHITKS
 PEDKREYRGLELANGIKVLLMSDPTTDKSSAALDVHIGSLSDPPNIAGLSHFCEHMLF
 LGTKKYPKENEYSQFLSEHAGSSNAFTSGEHTNYYFDVSHEHLEGALDRFAQFFLC
 PLFDESKDREVNVDSEHEKNVMNDAWRLFQLEKATGNPKHPFSKFGTGNKYTL
 ETRPNQEGIDVRQELLKFHSAYYSSNLMAVCVLGRESLDDLTLNVVKLFSEVENKNV
 PLPEFPEHPFQEEHLKQLYKIVPIKDIRNLYVTFPIPDQLQYYKSNPGHYLGHLIGHEG
 PGSLLSELKSKGWVNTLVGGQKEGARGFMFFIINVDLTEEGLLHVEDIILHMFQYIQK
 LRAEGPQEWVFQECKDLNAVAFRFKDKERPRGYTSKIAGILHYYPLEEVLTAEYLLE
 EFRPDLIEMVLDKLRPENVRVAIVSKSFEGKTDRTTEEWYGTQYKQEAIPDEVIKKWQ
 NADLNGKFKLPTKNEFIPTNFEILPLEKEATPYPALIKDTVMSKLWFKQDDKKKKPKA
 CLNFEFFSPFAYVDPLHCNMAYLYLELLKDSLNEYAYAAELAGLSYDLQNTIYGMYS
 VKGYNDKQPILLKKIIEKMATFEIDEKRFEIIEAYMRSLNNFRAEQPHQHAMYRLRL
 MTEVAWTKDELKEALDDVTLPRLKAFIPQLLSRLHIEALLHGNITKQAALGIMQMVED
 TLIEHAHTKPLLPSQLVRYREVQLPDRGWVYQQRNEVHNNCGIEIYYQTDQMSTS
 ENMFLELFCQIIESEPCFNTLRTKEQLGYIVFSGPRRANGIQSLRFIIQSEKPPHYLESR
 VEAFLITMEKSIEDMTEEAFQKHIQALAIRRLDKPKKLSAECAYWGEIISQQYNFDRD
 NTEVAYLKTTLTKEDIKFYKEMLAVDAPRRHKVSVHVLAREMDSCPVVGEFPCQNDI
 NLSQAPALPQPEVIQNMTEFKRGLPLFPLVKPHINFMAAKLTRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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GENE INFORMATION

Gene Name IDE insulin-degrading enzyme [Homo sapiens (human)]

Official Symbol IDE

Synonyms IDE; insulin-degrading enzyme; insulysin; insulinase; insulin protease; Abeta-degrading protease; INSULYSIN; FLJ35968;

Gene ID 3416

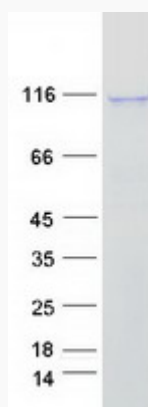
mRNA Refseq NM_004969

Protein Refseq NP_004960

MIM 146680

UniProt ID P14735

SDS-PAGE



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