

Recombinant Full Length Human IDE Protein, C-Flag-tagged

Cat. No. IDE-307HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human IDE Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	117.8 kDa
AA Sequence	MRYRLAWLLHPALPSTFRSVLGARLPPPERLCGFQKKTYSKMNNPAIKRIGNHITKS

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PEDKREYRGLELA NGIKVLLMSDPTTDKSSAALDVHIGSLSDPPNIAGLSHFCEHML
 FLGTTKYPKENEYSQFLSEHAGSSNA FTSGEHTNYYFDVSHEHLEGALDRFAQFFL
 CPLFDESCKDREVNVDSEHEKNVMNDAWRLFQLEKATGN PKHPFSKFGTGNKYT
 LETRPNQEGIDVRQELLKFHSAYYSSNLMAVCVLGRESLDDLTLNLVVKLFSEVEN KN
 VPLPEFPEHPFQEEHLKQLYKIVPIKDIRNLYVTFFIPDLQKYYKSNPGHYLGHLIGHE
 GPGSLLSEL KSKGWVNTLVGGQKEGARGFMFFIINVDLTEEGLLHVEDIILHMFQYIQ
 KLRAEGPQEWVFQECKDLNAV AFRFKDKERPRGYTSKIAGILHYYPLEEVLTAEYLL
 EEFRPDLIEMVLDKLRPENVRVAIVSKSFEGKTD RTEEWYGTQYKQEAIPDEVIKKW
 QNADLNGKFKLPTKNEFIPTNFEILPLEKEATPYPALIKDTVMSKLW FKQDDKKKKPK
 ACLNFEFFSPFAYVDPLHCNMYLYLELLKDSLNEYAYAAELAGLSYDLQNTIYGYML
 S VKGYNDKQPILLKKIIEKMATFEIDEKRFEIIEKAYMRSNNFRAEQPHQHAMYLLR
 LLMTEVAWTKDEL KEALDDVTLPRLKAFIPQLLSRLHIEALLHGNITKQAALGIMQMV
 EDTLIEHAHTKPLLPSQLVRYREVQ LPDRGWVYQQRNEVHNNGIEIYYQTDMS
 TSENMFLELFCQIIEPCFNTLRTKEQLGYIVFSGPRRA NGIQSLRFIIQSEKPPHYLE
 SRVEAFLITMEKSIEDMTEEAFQKHIQALAIRRLDKPKKLSAECAKYWGE IISQQYNF
 DRDNTDEVAYLKTTLTKEDIKFYKEMLAVDAPRRHKVSVHVLAREMDSCPVVGEFPCQ
 NDINL
 SQAPALPQPEVIQNMTEFKRGLPLFPLVKPHINFMAAKLTRTRPLEQKLISEEDLAAN
 DILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by

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conventional chromatography steps.

Protein Families Druggable Genome, Protease

Protein Pathways Alzheimer's disease

Full Length Full L.

GENE INFORMATION

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

Official Symbol IDE

Synonyms INSULYSIN

Gene ID 3416

mRNA Refseq NM_004969.4

Protein Refseq NP_004960.2

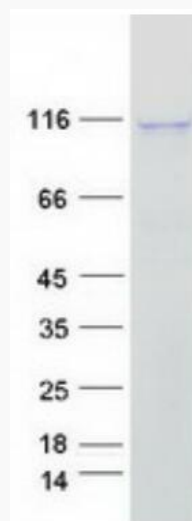
MIM 146680

UniProt ID P14735

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Coomassie blue staining of purified IDE protein.

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