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 causitive 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 FLGTKKYPKENEYSQFLSEHAGSSNA FTSGEHTNYYFDVSHEHLEGALDRFAQFFL CPLFDESCKDREVNAVDSEHEKNVMNDAWRLFQLEKATGN PKHPFSKFGTGNKYT LETRPNQEGIDVRQELLKFHSAYYSSNLMAVCVLGRESLDDLTNLVVKLFSEVEN KN VPLPEFPEHPFQEEHLKQLYKIVPIKDIRNLYVTFPIPDLQKYYKSNPGHYLGHLIGHE GPGSLLSEL KSKGWVNTLVGGQKEGARGFMFFIINVDLTEEGLLHVEDIILHMFQYIQ KLRAEGPQEWVFQECKDLNAV AFRFKDKERPRGYTSKIAGILHYYPLEEVLTAEYLL EEFRPDLIEMVLDKLRPENVRVAIVSKSFEGKTD RTEEWYGTQYKQEAIPDEVIKKW QNADLNGKFKLPTKNEFIPTNFEILPLEKEATPYPALIKDTVMSKLW FKQDDKKKKPK ACLNFEFFSPFAYVDPLHCNMAYLYLELLKDSLNEYAYAAELAGLSYDLQNTIYGMYL S VKGYNDKQPILLKKIIEKMATFEIDEKRFEIIKEAYMRSLNNFRAEQPHQHAMYYLR LLMTEVAWTKDEL KEALDDVTLPRLKAFIPQLLSRLHIEALLHGNITKQAALGIMQMV EDTLIEHAHTKPLLPSQLVRYREVQ LPDRGWFVYQQRNEVHNNCGIEIYYQTDMQS TSENMFLELFCQIISEPCFNTLRTKEQLGYIVFSGPRRA NGIQSLRFIIQSEKPPHYLE SRVEAFLITMEKSIEDMTEEAFQKHIQALAIRRLDKPKKLSAECAKYWGE IISQQYNF DRDNTEVAYLKTLTKEDIIKFYKEMLAVDAPRRHKVSVHVLAREMDSCPVVGEFPCQ 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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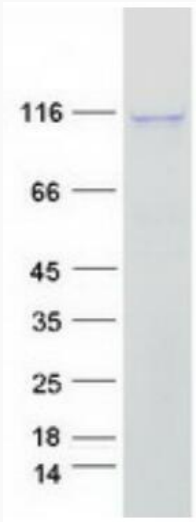

Coomassie blue staining of purified IDE protein.

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