

## Product datasheet for **TP320700L**

### IDE (NM\_004969) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human insulin-degrading enzyme (IDE), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220700 representing NM_004969 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MRYRLAWLLHPALPSTFRSVLGARLPPPERLCGFQKKTYSKMNNPAIKRIGNHITKSPEDKREYRGLELA  
NGIKVLLMSDPTTDKSSAALDVHIGSLSDPPNIAGLSHFCEHMLFLGTTKYPKENEYSQFLSEHAGSSNA  
FTSGEHTNYYFDVSHHELEGALDRFAQFFLCPLFDESCKDREVNVDSEHEKNVMNDAWRLFQLEKATGN  
PKHPFSKFGTGKNKYTLETRPNQEGIDVRQELLKFHSAYSSNLMAVCVLGRESLDDLTLNLVVKLFSEVEN  
KNVPLPEFPEHPFQEEHLKQLYKIVPIKDIRNLYVTFPIDLQKYYKSNPGHYLGHLIGHEGPGSLLSEL  
KSKGWVNTLVGGQKEGARGFMFFIINVDLTEEGLLHVEDIILHMFQYIQKLRAEGPQEWVFQECKDLNAV  
AFRFKDKERPRGYTSKIAGILHYYPLEEVLTAEYLLEEFRPDLIEMVLDKLRPENVRVAIVSKSFEGKTD  
RTEEWYGTQYKQEAIPDEVIKKWQNADLNGKFKLPKNEFIPTNFEILPLEKEATPYPALIKDVTMSKLW  
FKQDDKKKKPKACLNFEEFSPFAYVDPLHCNMAYLYLELLKDSLNEYAYAAELAGLSYDLQNTIYGMYS  
VKGYNDKQPILLKKIIEKMATFEIDEKRFEIIEAYMRSNNFRAEQPHQHAMYLRLLMTEVAWTKDEL  
KEALDDVTLPRLKAFIPQLLSRLHIEALLHGNITKQAALGIMQMVEDTLIEHAHTKPLPSQLVRYREVQ  
LPDRGWVYQQRNEVHNNCGIEIYYQTDQMSTENMFLELFCQIIESEPCFNTLRTKEQLGYIVFSGPRRA  
NGIQSLRFIIQSEKPPHYLESRVEAFLITMEKSIEDMTTEAFQKHIQALAIRRLDKPKKLSAECAKYWGE  
IISQQYNFDRDNTEVAYLKTTLTKEDIIKFYKEMLAVDAPRRHKVSVHVLAREMDSCPVVGEFPCQNDINL  
SQAPALPQPEVIQNMTEFKRGLPLFPLVKPHINFMAAKL

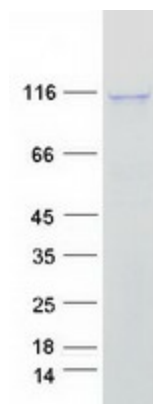
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	117.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004960</a>
<b>Locus ID:</b>	3416
<b>UniProt ID:</b>	<a href="#">P14735</a>
<b>RefSeq Size:</b>	3279
<b>Cytogenetics:</b>	10q23.33
<b>RefSeq ORF:</b>	3057
<b>Synonyms:</b>	INSULYSIN
<b>Summary:</b>	<p>This gene encodes a zinc metallopeptidase that degrades intracellular insulin, and thereby terminates insulin's 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.[provided by RefSeq, Sep 2009]</p>
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Protein Pathways:</b>	Alzheimer's disease

**Product images:**

Coomassie blue staining of purified IDE protein (Cat# [TP320700]). The protein was produced from HEK293T cells transfected with IDE cDNA clone (Cat# [RC220700]) using MegaTran 2.0 (Cat# [TT210002]).