

Product datasheet for PH320700

IDE (NM_004969) Human Mass Spec Standard

Product data:

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| Product Type: | Mass Spec Standards |
| Description: | IDE MS Standard C13 and N15-labeled recombinant protein (NP_004960) |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | RC220700 |
| Predicted MW: | 117.8 kDa |
| Protein Sequence: | >RC220700 representing NM_004969 Red=Cloning site Green=Tags(s) |

MRYRLAWLLHPALPSTFRSVL GARLPPPERLCGFQKKTYSKMNNPAIKRIGNHITKSPEDKREYRGLELA
NGIKVLLMSDPTTDKSSAALDVHIGSLSDPPNIAGLSHFCEHMLFLGTTKYPKENEYSQFLSEHAGSSNA
FTSGEHTNYYFDVSHEHLEGALDRFAQFFLCPLFDESCKDREVNVDSEHEKNVMNDARLRFQLEKATGN
PKHPFSKFGTGNKYTLTRPNQEGIDVRQELLFHSAAYSSNLMAVCVLRGSLDDLNLVVKLFSEVEN
KNVPLPEFPEHPFQEEHLKQLYKIVPIKDIRNLVYTFPIPDLQKYYKSNPGHYLGHLLIGHEGPGSLLSEL
KSKGWVNTLVGGQKEGARGFMFFIINVDLTEEGLLHVEDIILHMFQYIQKLRAGEPQEWVFQECKDLNAV
AFRFKDKERPRGYTSKIAGILHYYPLEEVLTAEYLLLEFRPDLIEMVLDKLRPENVRVAIVSKSFEKGTD
RTEEWYGTQYKQEAIPDEVIKKWQNADLNGKFKLPTKNEFIPTNFEILPLEKEATPYPALIKDVTMSKWL
FKQDDKKKPKACLNFEEFSPFAYVDPLHCNMAYLYLELLKDSLNEYAYAAELAGLSYDLQNTIYGMYS
YKGYNDKQPILLKIIIEKMATFEIDEKRFEIIEKAYMRSLLNFRAEQPHQHAMYLLRLMTVEAWTKDEL
KEALDDVTLPRLKAFIPQLLSRLHIEALLHGNITKQAALGIMQMVEDTLIEHAHTKPLLSQLVRYREVQ
LPDRGWFVYQQRNEVHNCGIEIYYQTMQSTSENMFLELFCQIISEPCFNTLRTKEQLGYIVFSGPRRA
NGIQSLRFIIQSEKPPHYLESRVEAFLITMEKSIEDMTEEAQKHIQALAIRRLDKPKLSAECAYWGE
IISQQYNFDRDNTEVAYLKTLTKEI IKFYKEMLAVDAPRRHKVSVHVLAREMDSCPVVGFEFPCQNDINL
SQAPALPQPEVIQNMTEFKRGLPLFPLVKPHINFMAAKL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

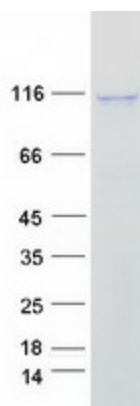
| | |
|------------------|--|
| Tag: | C-Myc/DDK |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Labeling Method: | Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| Storage: | Store at -80°C. Avoid repeated freeze-thaw cycles. |



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| Stability: | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq: | NP_004960 |
| RefSeq Size: | 3279 |
| RefSeq ORF: | 3057 |
| Synonyms: | INSULYSIN |
| Locus ID: | 3416 |
| UniProt ID: | P14735 |
| Cytogenetics: | 10q23.33 |
| Summary: | 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] |
| Protein Families: | Druggable Genome, Protease |
| Protein Pathways: | 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]).