

## 32-7738: Recombinant Human Insulin-Degrading Enzyme/IDE/Insulysin (C-6His)

**Gene :** IDE  
**Gene ID :** 3416  
**Uniprot ID :** P14735

### Description

Source: Human Cells.  
MW :114.25kD.

Recombinant Human Insulin-Degrading Enzyme is produced by our Mammalian expression system and the target gene encoding Met42-Leu1019 is expressed with a 6His tag at the C-terminus. Insulin-Degrading Enzyme (IDE) is a secreted enzyme that belongs to the peptidase M16 family. IDE is a large zinc-binding protease and cleaves multiple short polypeptides that vary considerably in sequence. IDE plays a role in the cellular breakdown of insulin, IAPP, glucagon, bradykinin, kallidin, and other peptides, and thereby plays a role in intercellular peptide signaling. IDE degrades amyloid formed by APP and IAPP. IDE may participate in the degradation and clearance of naturally secreted amyloid beta-protein by neurons and microglia. IDE, which migrates at 110 kDa during gel electrophoresis under denaturing conditions, has since been shown to have additional substrates, including the signaling peptides glucagon, TGF  $\alpha$  and beta-endorphin.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g  
**Content :** Supplied as a 0.2  $\mu$ m filtered solution of 20mM TrisHCl,150mM NaCl,0.05%Brij35,10%Glycerol,pH7.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MNNPAIKRIGNHITKSPEDKREYRGLELANGIKVLLISDPTTDKSSAALDVHIGSLSDPPNIAGLSHFCEHMLFLGT  
KKYPKENEYSQFLSEHAGSSNAFTSGEHTNYYFDVSHEHLEGALDRFAQFFLCPLFDESCKDREVNVDSEHEK  
NVMNDAWRLFQLEKATGNPKHPFSKFGTGNYKLTETRPNQEGIDVRQELLKFHSAYSSNLMVAVCVLGRESLD  
DLTNLVVKLFSEVENKNVPLPEFPEHPFQEEHLKQLYKIVPIKDIRNLYVTFPIPDQKYYKSNPGHYLGHLIGHEG  
PGSLLSELKSGWVNTLVGGQKEGARGFMFFIINVDLTEEGLLHVEDIILHMFQYIQKLRAEGPQEWVFQECKD  
LNAVAFRFKDKERPRGYTSKIAGILHYPLEEVLTAEYLLEEFRPDLIEMVLDKLRPENVRVAIVSKSFEGKTRTE  
EWYGTQYKQEAIPDEVIKKWQNADLNGKFKLPTKNEFIPTNFEILPEKEATPYPALIKDTAMSKLWFKQDDKFFL  
PKACLNFEFFSPFAYVDPLHCNMAYLYLELLKDSLNEYAYAAELAGLSYDLQNTIYGMYSVKGYNDKQPILLKKII  
EKMATFEIDEKRFEIIEAYMRSLNFRAEQPHQHAMYLLRLLMTEVAWTKDELKEALDDVTLPRLKAFIPQLLS  
RLHIEALLHGNIKQAALGIMQMVEDTLIEHAHTKPLLPSQLVRYREVQLPDRGWFVYQQRNEVHNNCGIEIYYQ  
TDMQSTSENMFLELFCQIIEPCFNTLRTKEQLGYIVFSGPRRANGIQGLRFIIQSEKPPHYLESRVEAFLITMEKSI  
EDMTEEFQKHIALAIRRLDKPKKLSAECAKYWGEIISQYNFDRDNTVEAYLKTLLKEDIKFKYKEMLAVDAPR  
RHKVSVHVLAREMDSCPVGGEFPCQNDINLSQAPALPQPEVIQNMTEFKRGLPLFPLVKPHINFMAAKLLDHHH  
HHH

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.