

## PRODUCT DATA SHEET

### Insulin-Degrading Enzyme Human E. coli

**Cat. No.:** RD172201100**Size:** 0.1 mg**Source:** E. coli**Type:** Recombinant protein**Species:** Human**Other Names:**

Insulysin, Insulinase, Insulin protease

**Description:**

Total 1026 AA. MW: 119.0 kDa (calculated). UniProtKB acc.no. P14735 (Met1-Leu1019). C-terminal His-tag (7 extra AA). Protein identity confirmed by MS.

**Amino Acid Sequence:**

MRYRLAWLLH PALPSTFRSV LGARLPPPER LCGFQKKTYS KMNNPAIKRI GNHITKSPED  
KREYRGLLELA NGIKVLLISD PTTDKSSAAL DVHIGSLSDP PNIAGLSHFC EHMLFLGTTK  
YPKENEYSQF LSEHAGSSNA FTSGEHTNYY FDVSHEHLEG ALDRFAQFFL CPLFDESCKD  
REVNAVDSEH EKNVMNDAWR LFQLEKATGN PKHPFSKFGT GNKYTLETRP NQEGIDVRQE  
LLKFHSAYYS SNLMAVCVLG RESLDDLTLN VVKLFSEVEN KNVPLPEFPE HPFQEEHLKQ  
LYKIVPIKDI RNLYVTFFIP DLQKYYKSNP GHYLGHLIGH EPGSLLSEL KSKGWVNTLV  
GGQKEGARGF MFFIINVDLT EEGLLHVEDI ILHMFQYIQK LRAEGPQEWV FQECKDLNAV  
AFRFKDKERP RGYTSKIAGI LHYYPLEEVL TAEYLLLEFR PDLIEMVLDK LRPENVRVAI  
VSKSFEGKTD RTEEWYGTQY KQEAIPEDEVI KKWQNADLNG KFKLPTKNEF IPTNFEILPL  
EKEATPYPAL IKDTAMSKLW FKQDDKFFLP KACLNFEEFS PFAYVDPLHC NMAYLYLELL  
KDSLNEYAYA AELAGLSYDL QNTIYGYMLS VKGYNDKQPI LLKKIEKMA TFEIDEKRFE  
IIKEAYMRSL NNFRAEQPHQ HAMYYLRLLM TEVAWTKDEL KEALDDVTLR RLKAFIPQLL  
SRLHIEALLH GNITKQAALG IMQMVEDTLI EHAHTKPLLP SQLVRYREVQ LPDRGWFVYQ  
QRNEVHNNCG IEIYYQTDMQ STSENMFLEL FCQIISEPCF NTLRTKEQLG YIVFSGPRRA  
NGIQGLRFII QSEKPPHYLE SRVEAFLITM EKSIEDMTEE AFQKHIQALA IRRLDKPKKL  
SAECAKYWGE

**Purity:**

&gt; 90 % by SDS-PAGE

**Endotoxin:**

&lt; 1.0 EU/μg

**Formulation:**

0.25 – 0.60 mg/mL solution in 20 mM Tris buffer, 50 mM NaCl, pH 8.0, 10%(w/v) glycerol, filtered (0.4 μm), frozen

**Reconstitution:**

Defrost at ambient temperature.

**Shipping:**

On ice. Upon receipt, store the product at the temperature recommended below.

**Storage/Stability:**

Store protein at -80°C. Protein remains stable until the expiry date when stored at -80°C. Avoid repeated freezing/thawing cycles.

**Quality Control:**

BCA to determine quantity of the protein.  
SDS PAGE to determine purity of the protein.  
Endotoxin level determination.

**Applications:**

ELISA, Western blotting

**Note:**

This product is intended for research use only.