

PRODUCT DATA SHEET

Insulin-Degrading Enzyme Human E. coli

Cat. No.: RD172201100

Type: Recombinant protein

Size: 0.1 mg

Source: E. coli

Species: Human

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 LC-MS/MS.

Other names:

Insulysin, Insulinase, Insulin protease

Amino Acid sequence:

MRYRLAWLLH PALPSTFRSV LGARLPPPER LCGFQKKTYS KMNNPAIKRI GNHITKSPED
KREYRGGLELA NGIKVLLISD PTTDKSSAAL DVHIGSLSDP PNIAGLSHFC EHMLFLGTTK
YPKENEYSQF LSEHAGSSNA FTSGEHTNYY FDV SHEHLEG ALDRFAQFFL CPLFDESCKD
REVNAV DSEH EKNVMNDAWR LFQLEKATGN PKHPFSKFGT GNKYTLETRP NQEGIDVRQE
LLKFHSAYYS SNLMAVCVLG RESLDDLTLN VVKLFSEVEN KNVPLPEFPE HPFQEEHLKQ
LYKIVPIKDI RNLYVTFPIP DLQKYYKSNP GHYLGHLIGH EGPGSLLSEL KSKGWVNTLV
GGQKEGARGF MFFIINVDLT EEGLLHVEDI ILHMFQYIQK LRAEGPQEWV FQECKDLNAV
AFRFKDKERP RGYTSKIAGI LHYYPLEEVL TAEYLLLEEFR PDLIEMVLDK LRPENVRVAI
VSKSFEGKTD RTEEWYGTQY KQEAI PDEVI KKWQNADLNG KFKLPTKNEF IPTNF EILPL
EKEATPYPAL IKDTAMSKLW FKQDDKFFLP KACLNFEFFS PFAYVDPLHC NMAYLYLELL
KD SLNEYAYA AELAGLSYDL QNTIYGYMLS VKGYNDKQPI LLKKIIEKMA TFEIDEKRFE
I I KEAYMRSL NNFRAEQPHQ HAMYYLRLLM TEVAWTKDEL KEALDDVTL P RLKAFIPQLL
SRLHIEALLH GNITKQAALG IMQMVEDTLI EHAHTKPLLP SQLVRYREVQ LPDRGWVYQ
QRNEVHNNCG IEIYYQ TDMQ STSENMFLEL FCQI ISEPCF NTLRTKEQLG YIVFSGPRRA
NGIQGLRFII QSEKPPHYLE SRVEAFLITM EKSIEDMTEE AFQKHIQALA IRRLDKPKKL
SAECAKYWGE IISQQYNFDR DNTEVAYLKT LTKEDI IKFY KEMLAVDAPR RHKVS VHVLA
REMDSCP VVG EFPCQNDINL SQAPALPQPE VIQNMTEFKR GLPLFPLVKP HINFMAAKLE
HHHHHH

Purity:

Purity as determined by densitometric image analysis: >95%

Endotoxin:

< 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/Expiration:

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

Applications:

Western blotting, ELISA

Note:

This product is intended for research use only

SDS-PAGE Gel:

12 % SDS-PAGE separation of Human IDE:

1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. Reduced and boiled sample, 2.5 µg/lane
3. Non-reduced and non-boiled sample, 2.5 µg/lane

