

Datasheet for ABIN7596271
IDE Protein (AA 42-1019) (His tag)



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Overview

Quantity:	500 µg
Target:	IDE
Protein Characteristics:	AA 42-1019
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IDE protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	MNNPAIKRIG NHITKSPEDK REYRGLELAN GIKVLLISDP TTDKSSAALD VHIGSLSDPP NIAGLSHFCE HMLFLGTKKY PKENEYSQFL SEHAGSSNAF TSGEHTNYFF DVSHEHLEGA LDRFAQFFLC PLFDESCCKDR EVNAVDSEHE KNVMNDAWRL FQLEKATGNP KHPFSKFGTG NKYTLETRPN QEGIDVRQEL LKFHSAYYSS NLMAVCVLGR ESLDDLTLNV VKLFSEVENK NVPLPEFPEH PFQEEHLKQL YKIVPIKDIR NLYVTFPIPD LQKYYSNPG HYLGHGHE GPGSLLSELK SKGWVNTLVG GQKEGARGFM FFIINVDLTE EGLLHVEDII LHMFAQYIQL RAEGPQEWVF QECKDLNAVA FRFKDKERPR GYTSKIAGIL HYYPLEEVL AEYLLEEFRP DLIEMVLDKL RPNVRVAIV SKSFEGKTDR TEEWYGTQYK QEAIPDEVIK KWQNADLNGK FKLPTKNEFI PTNFEILPLE KEATPYPALI KDTAMSKLWF KQDDKFFLPK ACLNFEFFSP FAYVDPLHCN MAYLYLELLK DSLNEYAYAA ELAGLSYDLQ NTIYGMYSV KGYNDKQPIL LKKIIEKMAT FEIDEKRFEI IKEAYMRSLN NFRAEQPHQH AMYYLRLLMT EVAWTKDELK
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Product Details

EALDDVTLPR LKAFIPQLLS RLHIEALLHG NITKQAALGI MQMVEDTLIE HAHTKPLLPS
QLVRYREVQL PDRGWFVYQQ RNEVHNHNCGI EIYYQTDMQS TSENMFLLELF CQIISEPCFN
TLRTKEQLGY IVFSGPRRAN GIQGLRFIIQ SEKPPHYLES RVEAFLITME KSIEDMTEEA
FQKHIQALAI RRLDKPKKLS AECAKYWGEI ISQQYNFDRD NTEVAYLKTL TKEDIKFYK
EMLAVDAPRR HKVSVHVLAR EMDSCPVVGE FPCQNDINLS QAPALPQPEV IQNMTEFKRG
LPLFPLVKPH INFMAAKL

Purity: > 90% by SDS-PAGE

Endotoxin Level: < 1 EU per 1ug of protein (determined by LAL method)

Biological Activity Comment: Specific activity is > 3,000 pmol/min/ug in which one unit will convert 1.0 pmole of Mca-RPPGFSAFK(Dnp)-OH to MCA-Pro-Leu-OH per minute at pH 7.5 at 25°C.

Target Details

Target: IDE

Alternative Name: Insulysin/IDE ([IDE Products](#))

Background: Insulysin/IDE, also known insulin-degrading enzyme, is a zinc metallopeptidase of the inverzincin family. This enzyme catalyses the degradation reaction of insulin, glucagon and other polypeptides. It is present in mammals and in many arthropods such as the fly *Drosophila melanogaster*. It is also expressed in many tissues, with the highest levels in liver, kidney, brain, and testis. It has been shown to degrade the amyloid beta peptide, which polymerizes into the plaques associated with Alzheimers disease. Therefore, the deficiency of IDE activity may contribute to the pathogenesis of type 2 diabetes mellitus and Alzheimers disease. Recombinant human Insulysin/IDE, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Molecular Weight: 114kDa (984aa)

NCBI Accession: [NP_004960](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	0.5 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.