

Product datasheet for **TP724587M**

IDE (42-1019, His-Tag) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant human Insulysin/IDE protein
Species:	Human
Expression Host:	Baculovirus
Expression cDNA Clone or AA Sequence:	MNNPAIKRIG NHITKSPEDK REYRGLELAN GIKVLLISDP TTDKSSAALD VHIGSLSDPP NIAGLSHFCE HMLFLGTTKYY PKENEYSQFL SEHAGSSNAF TSGEHTNYYF DVSHEHLEGA LDRFAQFFLC PLFDESCCKDR EVNAVDSEHE KNVMNDAWRL FQLEKATGNP KHPFSKFGTG NKYTLETRPN QEGIDVRQEL LKFHSAYYSS NLMAVCVLGR ESLDDLTLNLV VKLFSEVENK NVPLPEFPEH PFQEEHLKQL YKIVPIKDIR NLYVTFPIPD LQKYYKSNPG HYLGHGHE GPGSLLSELK SKGWVNTLVG GQKEGARGFM FFIINVDLTE EGLLHVEDII LHMFIYQKL RAEGPQEWVF QECKDLNAVA FRFKDKERPR GYTSKIAGIL HYYPLEEVL AEYLLEEFRP DLIEMVLDKL RPNVVRVAIV SKSFEGKTDR TEEWYGTQYK QEAIPEVIK KWQNADLNGK FKLPTKNEFI PTNFEILPLE KEATPYPALI KDTAMSKLWF KQDDKFFLPK ACLNFEFFSP FAYVDPLHCN MAYLYLELLK DSLNEYAYAA ELAGLSYDLQ NTIYGMYSV KGYNDKQPIL LKKIIEKMAT FEIDEKRFEI IKEAYMRSLN NFRAEQPHQH AMYYLRLMLT EAWTKDELK EALDDVTLPR LKAFIPQLLS RLHIEALLHG NITKQAALGI MQMVEDTLIE HAHTKPLPS QLVRYREVQL PDRGWFVYQQ RNEVHNNCGI EIYYQTMQS TSENMFLFELF CQIIEPCFN TLRTKEQLGY IVFSGPRRAN GIQGLRFIIQ SEKPPHYLES RVEAFLITME KSIEDMTEEA FQKHIQALAI RRLDKPKKLS AECAKYWGEI ISQQYNFDRD NTEVAYLKTLL TKEDIIFKYK EMLAVDAPRR HKVSVHVLAR EMDSCPVVGE FPCQNDINLS QAPALPQPEV IQNMTEFKRG LPLFPLVKPH INFMAAKL
Tag:	His-Tag
Predicted MW:	114kDa (984aa)
Concentration:	0.5mg/ml (determined by Absorbance at 280nm)
Purity:	> 90% by SDS-PAGE
Buffer:	Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 100mM NaCl, 0.05% Brij35, 10% glycerol
Bioactivity:	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.
Endotoxin:	< 1 EU per 1ug of protein (determined by LAL method)
Applications:	SDS-PAGE, Enzyme Activity



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Storage:	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.
RefSeq:	NP_004960.2
Summary:	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 <i>Drosophila melanogaster</i> . 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.