Datasheet for ABIN7318623

IDE Protein (His tag)

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Overview

Quantity:	50 µg
Target:	IDE
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IDE protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human IDE/Insulysin Protein (His Tag)
Sequence:	Met42-Leu1019
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	IDE
Alternative Name:	IDE/Insulysin (IDE Products)
Background:	Background: 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

Target Details

	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 β-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 α and β-endorphin. Synonym: Insulin-Degrading Enzyme, Abeta-Degrading Protease, Insulin Protease, Insulinase, Insulysin, IDE
Molecular Weight:	114.3 kDa
UniProt:	P14735
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl,150 mM NaCl,0.05 % Brij35,10 %Glycerol, pH 7.5.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.