

Recombinant Human IDE/Insulysin Protein (His Tag)

Catalog Number: PKSH032593



Note: Centrifuge before opening to ensure complete recovery of vial contents.

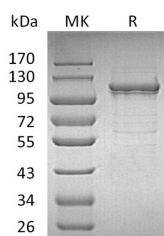
Description

Synonyms	Insulin-Degrading Enzyme; Abeta-Degrading Protease; Insulin Protease; Insulinase; Insulysin; IDE
Species	Human
Expression Host	HEK293 Cells
Sequence	Met42-Leu1019
Accession	P14735
Calculated Molecular Weight	114.3 kDa
Observed molecular weight	120 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 0.05% Brij35, 10% Glycerol, pH 7.5.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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 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.

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