A Reliable Research Partner in Life Science and Medicine

Recombinant Human ERN1/IRE1 Protein (aa 465-977)

Catalog Number: PKSH030975

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

Description

Species Human

Source Baculovirus-Insect Cells-derived Human ERN1/IRE1 protein Pro 465-Leu 977

 Calculated MW
 58.3 kDa

 Observed MW
 65 kDa

 Accession
 O75460-1

Bio-activity 1. Kinase activity untested 2. Measured by its nuclease activity to cleave Xbp1 single

stem-loop mini-substrate.

Properties

Purity > 80 % as determined by reducing SDS-PAGE.

Endotoxin <1.0 EU per μg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4

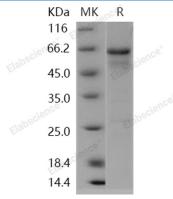
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 80 % as determined by reducing SDS-PAGE.

Background

Web:www.elabscience.com

Elabscience Bionovation Inc.

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Trypsin-3; also known as Trypsin III; brain trypsinogen; Serine protease 3 and PRSS3; is a secreted protein which belongs to thepeptidase S1 family. Trypsin-3 / PRSS3 is expressed is in pancreas and brain. It contains onepeptidase S1 domain. Trypsin-3 / PRSS3 can degrade intrapancreatic trypsin inhibitors that protect against CP. Genetic variants that cause higher mesotrypsin activity might increase the risk for chronic pancreatitis (CP). A sustained imbalance of pancreatic proteases and their inhibitors seems to be important for the development of CP. The trypsin inhibitor-degrading activity qualified PRSS3 as a candidate for a novel CP susceptibility gene. Trypsin-3 / PRSS3 has been implicated as a putative tumor suppressor gene due to its loss of expression; which is correlated with promoter hypermethylation; in esophageal squamous cell carcinoma and gastric adenocarcinoma.

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