

## Datasheet for ABIN7317465 **ERN1 Protein**

[Go to Product page](#)

### Overview

Quantity:	50 µg
Target:	ERN1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Purpose:	Recombinant Human ERN1/IRE1 Protein (aa 465-977)(Active)
Sequence:	Pro 465-Leu 977
Characteristics:	A DNA sequence encoding the human ERN1 (075460-1) (Pro 465-Leu 977) was expressed and purified with two additional amino acids (Gly & Pro ) at the N-terminus.
Purity:	> 80 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	1.Kinase activity untested 2. Measured by its nuclease activity to cleave Xbp1 single stem-loop mini-substrate.

### Target Details

Target:	ERN1
Alternative Name:	ERN1/IRE1 ( <a href="#">ERN1 Products</a> )

## Target Details

Background:	<p>Background: Trypsin-3; also known as Trypsin III; brain trypsinogen; Serine protease 3 and PRSS3; is a secreted protein which belongs to the peptidase S1 family. Trypsin-3 / PRSS3 is expressed in pancreas and brain. It contains one peptidase 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.</p> <p>Synonym: hIRE1p;IRE1;IRE1a;IRE1P</p>
Molecular Weight:	58.3 kDa
Pathways:	<a href="#">ER-Nucleus Signaling</a> , <a href="#">Unfolded Protein Response</a>

## Application Details

Restrictions:	For Research Use only
---------------	-----------------------

## Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>