

# Human ERN1/IRE1 (aa 465-977, His & GST Tag) recombinant protein



Catalog Number: 503434

## Gene Name Synonym

Endoplasmic reticulum-to-nucleus signaling 1;  
Inositol-requiring protein 1; Ire1-alpha;  
Serine/threonine-protein kinase;  
Endoribonuclease

## Protein Construction

A DNA sequence encoding the human ERN1 isoform 1 (O75460-1) cytoplasmic domain (Pro 465-Leu 977) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

## Organism

Human

## Expression Host

Baculovirus-Insect Cells

## Activity

1. Kinase activity untested
2. Measured by its nuclease activity to cleave Xbp1 single stem-loop mini-substrate.

## Purity

> 80 % as determined by SDS-PAGE

## Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

## Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

## Predicted N terminal

Met

## Molecular Mass

The recombinant human ERN1/GST chimera consists of 750 amino acids and has a calculated molecular mass of 86 kDa. It migrates as an approximately 90 kDa band in SDS-PAGE under reducing conditions.

## Formulation

Supplied as sterile 20mM Tris, 500mM NaCl, 10% gly, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

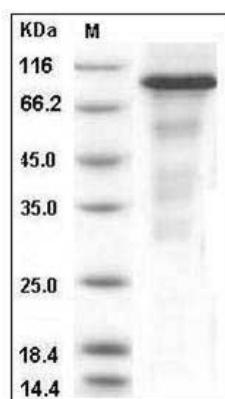
## Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human ERN1 / IRE1 Protein (aa 465-977, His & GST Tag) SDS-PAGE