

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

Catalog Number: 11905-HNCB



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## General Information

### Gene Name Synonym:

hIRE1p; IRE1; IRE1a; IRE1P

### Protein Construction:

A DNA sequence encoding the human ERN1 (O75460-1) (Pro 465-Leu 977) was expressed and purified with two additional amino acids (Gly & Pro) at the N-terminus.

**Source:** Human

**Expression Host:** Baculovirus-Insect Cells

## QC Testing

**Purity:** > 80 % as determined by SDS-PAGE

### Bio Activity:

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

### Endotoxin:

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

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Gly

### Molecular Mass:

The secreted recombinant human ERN1 consists of 515 amino acids and predicts a molecular mass of 58.3 KDa. The apparent molecular mass of the protein is approximately 65 KDa in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation:

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

## Usage Guide

### Storage:

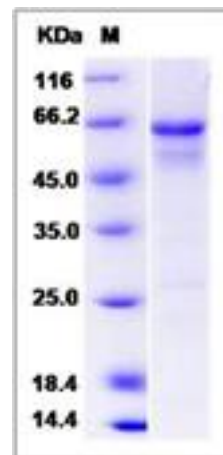
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## References

1.Trentmann,S.M. et al., 2000, Plant Mol Biol. 44 (1):11-25. 2.Iwawaki T., et al., 2001, Nat. Cell Biol. 3:158-64. 3.Liu C.Y., et al., 2003, J. Biol. Chem. 278:17680-7.

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