Human ERN1/IRE1 (aa 465-977) recombinant protein

Catalog Number: 501133

General Information

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

Organism

Human

Expression Host

Baculovirus-Insect Cells

QC Testing

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 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℃

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

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4.
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

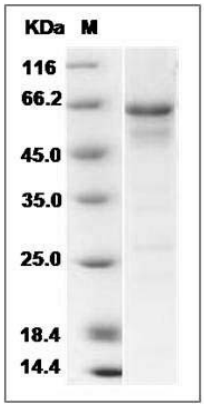
Storage

Store it under sterile conditions at -20℃ to -80℃. 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) SDS-PAGE