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

Catalog Number: **11905-H20B**

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General Information

Gene Name Synonym:

hIRE1p; IRE1; IRE1a; IRE1P; 9030414B18Rik; AI225830; C85377; Ire1a; Ire1alpha; Ire1p

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.

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 ℃

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

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

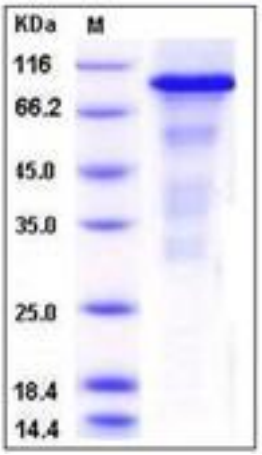
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

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.