

Recombinant Full Length Human ERN1 Protein, GST-tagged

Cat. No. ERN1-4597HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ERN1 full-length ORF (NP_689674.2, 1 a.a. - 70 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	70 amino acids
Description	This gene encodes the transmembrane protein kinase inositol-requiring enzyme 1. The encoded protein contains two functional catalytic domains, a serine/threonine-protein kinase domain and an endoribonuclease domain. This protein functions as a sensor of unfolded proteins in the endoplasmic reticulum (ER) and triggers an intracellular signaling pathway termed the unfolded protein response (UPR). The UPR is an ER stress response that is conserved from yeast to mammals and activates genes involved in degrading misfolded proteins, regulating protein synthesis and activating molecular chaperones. This protein specifically mediates the splicing and activation of the stress response transcription factor X-box binding protein 1. [provided by RefSeq, Aug 2017]
Molecular Mass	33 kDa
AA Sequence	MPARRLLLLLTLLLPGLGVSDRGAWGGGQLATAGSGPGQRRGAGAGVRAGSATAA ARCPVSPAVGGSGRA

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ERN1 endoplasmic reticulum to nucleus signaling 1 [Homo sapiens]
Official Symbol	ERN1
Synonyms	ERN1; endoplasmic reticulum to nucleus signaling 1; ER to nucleus signalling 1; serine/threonine-protein kinase/endoribonuclease IRE1; inositol requiring enzyme 1; IRE1; IRE1P; ire1-alpha; inositol-requiring 1; inositol-requiring enzyme 1; inositol-requiring protein 1; protein kinase/endoribonuclease; endoplasmic reticulum-to-nucleus signaling 1; IRE1a; hIRE1p; FLJ30999; MGC163277; MGC163279;
Gene ID	2081
mRNA Refseq	NM_001433
Protein Refseq	NP_001424
MIM	604033

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UniProt ID

O75460

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