

Recombinant Human ERN1 Protein, His-tagged

Cat. No. ERN1-700H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERN1(Phe571~Phe832) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Phe571~Phe832
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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	33.3kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others

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

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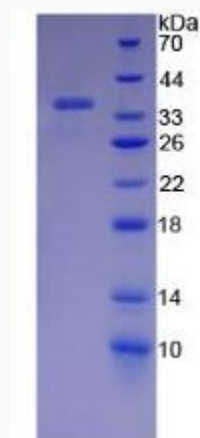
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Protein Refseq NP_001424

MIM 604033

UniProt ID O75460



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