

Recombinant Human ERN1 Protein, His-tagged

Cat. No. ERN1-1490H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ERN1 Protein (Phe571~Phe832) was expressed in E. coli with N-terminal His Tag.
Species	Human
Source	E.coli
ProteinLength	571-832 a.a.
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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Molecular Mass	33.3kDa
Purity	> 97%

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Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

GENE INFORMATION

Gene Name	ERN1 endoplasmic reticulum to nucleus signaling 1 [Homo sapiens (human)]
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Official Symbol	ERN1
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Synonyms	IRE1; IRE1P; IRE1a; hIRE1p
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Gene ID	2081
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mRNA Refseq	NM_001433.4
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Protein Refseq	NP_001424.3
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MIM	604033
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UniProt ID	O75460
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