

Recombinant Human ERN1

Cat. No. ERN1-28271TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human IRE1 with proprietary tag at the N terminal; Predicted MW 36.63 kDa, inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	The protein encoded by this gene is the ER to nucleus signalling 1 protein, a human homologue of the yeast Ire1 gene product. This protein possesses intrinsic kinase activity and an endoribonuclease activity and it is important in altering gene expression as a response to endoplasmic reticulum-based stress signals.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Ubiquitously expressed. High levels observed in pancreatic tissue.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Sequences of amino acids	EEVINLVDQTSENAPTTVSRDVEEKPAHAPARPEAPVDSMLKDMATIILSTFLLIGWV AFIITYPLSMHQQQQLQHQQFQKELEKIQLLQQQQQQLPFHP
Sequence Similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.Contains 1 KEN domain.Contains 1 protein kinase domain.

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;
Gene ID	2081
mRNA Refseq	NM_001433
Protein Refseq	NP_001424
MIM	604033
Uniprot ID	O75460
Chromosome Location	17q23
Pathway	Activation of Chaperones by IRE1alpha, organism-specific biosystem; Alzheimers

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disease, organism-specific biosystem; Alzheimers disease, conserved biosystem;
Diabetes pathways, organism-specific biosystem; Protein processing in endoplasmic
reticulum, organism-specific biosystem;

Function

ATP binding; endoribonuclease activity; endoribonuclease activity; endoribonuclease
activity, producing 5-phosphomonoesters; hydrolase activity;

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