

Active Recombinant Human ERN2, GST-tagged

Cat. No. ERN2-89H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ERN2 (IRE2) (499-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	499-end a.a.
Description	ERN2 or endoplasmic reticulum to nucleus signaling 2 protein, is a human homologue of the yeast Ire1 gene product which plays a role in multiple facets of the ER stress response in mammalian cells (1). This protein belongs to the protein kinase superfamily, Ser/Thr protein kinase family.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	2.6 nmol/min/mg
Molecular Mass	~80 kDa
Purity	>95% by densitometry
Applications	Kinase Assay

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Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 ug/ul
GENE INFORMATION	
Gene Name	ERN2 endoplasmic reticulum to nucleus signaling 2 [Homo sapiens]
Official Symbol	ERN2
Synonyms	ERN2; endoplasmic reticulum to nucleus signaling 2; ER to nucleus signalling 2; serine/threonine-protein kinase/endoribonuclease IRE2; IRE1b; hIRE2p; IRE1 beta; inositol-requiring 1 beta; inositol-requiring protein 2; IRE1, S. cerevisiae, homolog of; endoplasmic reticulum-to-nucleus signaling 2; endoplasmic reticulum to nucleus signalling 2; IRE1-BETA;
Gene ID	10595
mRNA Refseq	NM_033266
Protein Refseq	NP_150296
MIM	604034
UniProt ID	Q76MJ5
Chromosome Location	16p12.2

Function

ATP binding; endonuclease activity; endoribonuclease activity, producing 5-phosphomonoesters; hydrolase activity; magnesium ion binding; nucleotide binding; protein serine/threonine kinase activity;

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