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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA