ERN1 (IRE1) Recombinant Protein | ERN1 recombinant protein

ERN1 (IRE1), Active

CATALOG #	HOST	APPLICATIONS
AAA73528	**Sf9 insect cells**	**Western Blot**

PRODUCT SYNONYMS

ERN1 (IRE1); Active; hIRE1p; IRE1; IRE1A; IRE1P; ERN1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for ERN1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. 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.

IMAGES

SDS-PAGE
Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.

Activity
Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for ERN1 recombinant protein	Recombinant human ERN1 (IRE1)(468-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The ERN1 (IRE1) gene accession number is NM_001433. ERN1 or endoplasmic reticulum to nucleus signaling 1 is the ER to nucleus signalling 1 protein, a human homologue of the yeast Ire1 gene product which possesses intrinsic kinase activity and an endoribonuclease activity and it is important in endoplasmic reticulum-based stress signals. ERN1 controls IRE1 proteolysis in mammalian cells (1). The activation of ERN1 through oligomerization expands the mechanistic repertoire of kinase-based signaling receptors. ERNI has a critical function in extraembryonic cells that is essential for fetal viability (2).
Product Categories/Family for ERN1 recombinant protein	Protein Kinases; Angiogenesis; Apoptosis/Autophagy; Cancer; Cellular Stress; Inflammation; Metabolic Disorder ; Neurobiology; Ser/Thr Kinases
References	1. Niwa, M.et.al: A role for presenilin-1 in nuclear accumulation of Ire1 fragments and induction of the mammalian unfolded protein response. Cell 99: 691-702, 1999. 2. Iwawaki, T.et.al: Function of IRE1 alpha in the placenta is essential for placental development and embryonic viability. Proc. Nat. Acad. Sci. 106: 16657-16662, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_001433
Molecular Weight	~87kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/ern1-ire1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73528