Recombinant ERN2 protein (His tag)

Catalog Number	547567
Synonyms	Endoplasmic reticulum-to-nucleus signaling 2; Inositol-requiring protein 2; hIRE2p; Ire1-beta; IRE1b
Species	Human
Expression System	E. coli
Accession	Q76MJ5
Molecular Weight	Predictes a molecular mass of 48.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 48 kDa band.

Product Information

Sequence Region	512-926
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 512-926 aa (Q76MJ5) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Serine/threonine-protein kinase/endoribonuclease IRE2 (ERN2) fragment (residues 512-926) from Homo sapiens. This 415-amino acid fragment includes the complete Protein kinase and KEN domains, offering a specialized tool for investigating domain-specific functions in ER stress response and apoptosis. The full-length Serine/threonine-protein kinase/endoribonuclease IRE2 (Endoplasmic reticulum-to-nucleus signaling 2) functions in translational repression through 28S ribosomal RNA cleavage during endoplasmic reticulum stress and exhibits pro-apoptotic activity. Unlike related proteins, it appears uninvolved in the unfolded-protein response. The protein is localized to the endoplasmic reticulum membrane as a single-pass type I membrane protein, positioning it to directly respond to ER stress conditions.