Active Recombinant Full Length Human ERN1 Protein, C-Flag-tagged

Cat. No. ERN1-80HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ERN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes the transmembrane protein kinase inositol-requiring enzyme 1. The encoded protein contains two functional catalytic domains, a serine/threonine-protein kinase domain and an endoribonuclease domain. This protein functions as a sensor of unfolded proteins in the endoplasmic reticulum (ER) and triggers an intracellular signaling pathway termed the unfolded protein response (UPR). The UPR is an ER stress response that is conserved from yeast to mammals and activates genes involved in degrading misfolded proteins, regulating protein synthesis and activating molecular chaperones. This protein specifically mediates the splicing and activation of the stress response transcription factor X-box binding protein 1.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	WB positive control Binding assay (ITC)
Molecular Mass	109.6 kDa

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

AA Sequence	MPARRLLLLLTLLLPGLGIFGSTSTVTLPETLLFVSTLDGSLHAVSKRTGSIKWTLKED PVLQVPTHVEE PAFLPDPNDGSLYTLGSKNNEGLTKLPFTIPELVQASPCRSSDGIL YMGKKQDIWYVIDLLTGEKQQTLS SAFADSLCPSTSLLYLGRTEYTITMYDTKTREL RWNATYFDYAASLPEDDVDYKMSHFVSNGDGLVVTVD SESGDVLWIQNYASPVVA FYVWQREGLRKVMHINVAVETLRYLTFMSGEVGRITKWKYPFPKETEAKSKL TPTL YVGKYSTSLYASPSMVHEGVAVVPRGSTLPLLEGPQTDGVTIGDKGECVITPSTDVK FDPGLKSKN KLNYLRNYWLLIGHHETPLSASTKMLERFPNNLPKHRENVIPADSEKK SFEEVINLVDQTSENAPTTVSR DVEEKPAHAPARPEAPVDSMLKDMATIILSTFLLIG WVAFIITYPLSMHQQQQLQHQQFQKELEKIQLLQ QQQQQLPFHPPGDTAQDGELL DTSGPYSESSGTSSPSTSPRASNHSLCSGSSASKAGSSPSLEQDDGDEE TSVVIVG KISFCPKDVLGHGAEGTIVYRGMFDNRDVAVKRILPECFSFADREVQLLRESDEHPN VIRYFC TEKDRQFQYIAIELCAATLQEYVEQKDFAHLGLEPITLLQQTTSGLAHLHSL NIVHRDLKPHNILISMPN AHGKIKAMISDFGLCKKLAVGRHSFSRRSGVPGTEGWIA PEMLSEDCKENPTYTVDIFSAGCVFYYVISE GSHPFGKSLQRQANILLGACSLDCLH PEKHEDVIARELIEKMIAMDPQKRPSAKHVLKHPFFWSLEKQLQ FFQDVSDRIEKES LDGPIVKQLERGGRAVVKMDWRENITVPLQTDLRKFRTYKGGSVRDLLRAMRNKKH H YRELPAEVRETLGSLPDDFVCYFTSRFPHLLAHTYRAMELCSHERLFQPYYFHEP PEPQPPVTPDALTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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Protein Families	Protein Kinase, Transmembrane
Protein Pathways	Alzheimer's disease
Full Length	Full L.

GENE INFORMATION

Gene Name	ERN1 endoplasmic reticulum to nucleus signaling 1 [Homo sapiens (human)]
Official Symbol	ERN1
Synonyms	IRE1; IRE1P; IRE1a; hIRE1p
Gene ID	2081
mRNA Refseq	NM_001433.5
Protein Refseq	NP_001424.3
MIM	604033
UniProt ID	O75460

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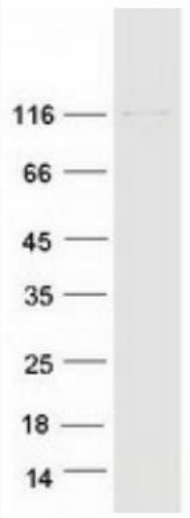

Coomassie blue staining of purified ERN1 protein.

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