

Product datasheet for PH315023

IRE1 (ERN1) (NM_001433) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ERN1 MS Standard C13 and N15-labeled recombinant protein (NP_001424)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215023
Predicted MW:	109.6 kDa
Protein Sequence:	>RC215023 representing NM_001433 Red=Cloning site Green=Tags(s)

MPARRLLLLLLTLLLPGLGIFGSTSTVTLPETLLFVSTLDGSLHAVSKRTGSIKWLKEDPVLQVPTHVEE
PAFLPDPNDGSLYTLGSKNNEGLTKLPFTIPELVQASPCRSSDGILYMGKKQDIWYVIDLLTGEKQQTLS
SAFADSLCPSTSLLYLGRTEYITIMYDTKRELROWNATYFDYAASLPEDDVYKMSHFVSNMGDGLVVTVD
SESGDVLWIQNYASPVVAFYVWQREGLRKMVHINVAVETLRYLTFMSGEVGRITKWKYPFKETEAKSKL
TPTLYVGKYSTSLYASPSMVHEGVAVVPRGSTLPLEGPQTDGVTIGDKGECVITPSTDVKFDPGLKSKN
KLNLYRNYWLLIGHHETPLSASTKMLERFPNNLPKHRENVIPADSEKKSFEVINLVDQTSNAPTTVSR
DVEEKPAHAPARPEAPVDSMLKDMATIILSTFLLIGWVAFIITYPLSMHQQQQLQHQQFQKELEKIQLLQ
QQQQQLPFHPPGDTAQDGELLDTSGPYSESSGTSPPSTSPRASNHSLCSGSSASKAGSSPSLEQDDGDEE
TSVVIVGKISFCPKDVLGHGAEGTIVYRGMFDNRDVAVKRILPECFSFADREVQLLRESDEHPNVIRYFC
TEKDRQFYIAIELCAATLQEYVEQKDF AHLGLEPITLLQQTTSGLAHLHSLNIVHRDLKPHNILISMPN
AHGKIKAMISDFGLCKKLAVGRHSFSRRSGVPGTEGWIAPEMLSEDCKENPTYTVDIFSAGCVFYVYISE
GSHPFGKSLQRQANILLGACSLDCLHPEKHEDVIARELIEKMIAMDPQKRPSAKHVLKHPFFWSLEKQLQ
FFQDVS DRIEKESLDGPIVKQLERGGRAVVKMDWRENITVPLQTDLRKFRITYKGGSVRDLLRAMRNKHH
YRELPAEVRETLGSLPDDFVCYFTRSRPHLLAHTYRAMELCSHERLFQPYFHEPPEPQPPVTPDAL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.



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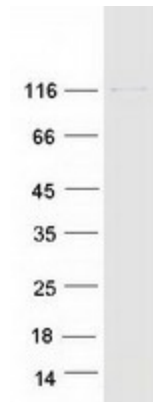
RefSeq:	NP_001424
RefSeq Size:	3620
RefSeq ORF:	2931
Synonyms:	hIRE1p; IRE1; IRE1a; IRE1P
Locus ID:	2081
UniProt ID:	O75460
Cytogenetics:	17q23.3

Summary: 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. [provided by RefSeq, Aug 2017]

Protein Families: Protein Kinase, Transmembrane

Protein Pathways: Alzheimer's disease

Product images:



Coomassie blue staining of purified ERN1 protein (Cat# [TP315023]). The protein was produced from HEK293T cells transfected with ERN1 cDNA clone (Cat# [RC215023]) using MegaTran 2.0 (Cat# [TT210002]).