

Recombinant Human ERN1 Protein, His-Avi-Tagged

Cat. No. ERN1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ERN1 protein, His-Avi-Tagged was expressed in Sf9 insect cells
Species	Human
Source	Sf9 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.
Applications	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.
Purity	≥90%
Storage Buffer	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween-20, 20% glycerol, 300 mM Imidazole
Reconstitution	Assay was done in a Kinase buffer using MBP (NEB, 0.1 mg/ml) as a substrate with 20 μM ATP at 30°C for 45 min. The amount of ATP transferred was calculated using

 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

	Kinase-Glo reagent (Promega).
Storage	At least 6 months at -80°C
Warning	Avoid freeze/thaw cycles.
Format	Aqueous buffer solution
Shipping	-80°C

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
UniProt ID	O75460

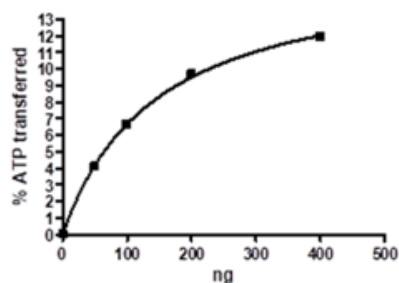
 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Specific Activity

Specific Activity



4-20% SDS-Page Coomassie Staining

4-20% SDS-Page Coomassie Staining

