

Datasheet for ABIN7317060

**ERN1 Protein (AA 465-977) (GST tag,His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	ERN1
Protein Characteristics:	AA 465-977
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ERN1 protein is labelled with GST tag,His tag.

## Product Details

Purpose:	Recombinant Human ERN1/IRE1 Protein (aa 465-977, His & GST Tag)(Active)
Sequence:	Pro 465-Leu 977
Characteristics:	A DNA sequence encoding the human ERN1 isoform 1 (O75460-1) cytoplasmic domain (Pro 465-Leu 977) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 80 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1.Kinase activity untested 2. The specific activity was determined to be 5 nmol/min/mg using MBP as substrate

## Target Details

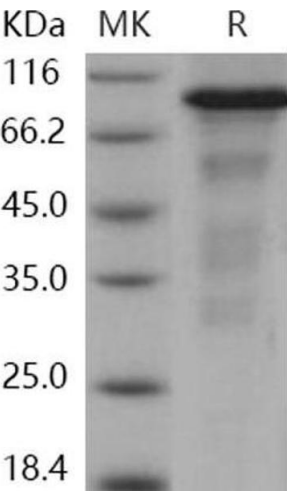
Target:	ERN1
Alternative Name:	ERN1/IRE1 ( <a href="#">ERN1 Products</a> )
Background:	<p>Background: The encoded protein contains two functional catalytic domains, a serine/threonine-protein kinase domain and an endoribonuclease domain. This protein functions as a sensor of unfolded proteins in the 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.</p> <p>Synonym: hIRE1p,IRE1,IRE1a,IRE1P</p>
Molecular Weight:	86 kDa
Pathways:	<a href="#">ER-Nucleus Signaling</a> , <a href="#">Unfolded Protein Response</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Frozen, Liquid
Buffer:	Supplied as sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.