Recombinant Human endoribonuclease IRE1/ERN1 Protein

Catalog No.: RP02121LQ

Sequence Information

Species
Human

Gene ID
2081

Swiss Prot
O75460-1

Tags
No tag

Synonyms
ERN1,IRE1,IRE1P,IRE1a,hIRE1p, IRE1P, IRE1a, hIRE1p

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 80 % as determined by SDS-PAGE.

Calculated MW
86 kDa

Observed MW
90 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4.

Reconstitution

Background

Endoplasmic reticulum stress and hypoxia are necessary components of malignant tumors growth and suppression of ERN1 (from endoplasmic reticulum to nuclei-1) signalling pathway, which is linked to the apoptosis and cell death processes, significantly decreases proliferative processes. An enhanced expression of TP53 gene in ERN1 knockdown glioma cells correlates with the decreased level of ubiquitin ligase MDM2 and increased expression level of USP7 which deubiquitinates TP53 and MDM2 and induces TP53-dependent cell growth repression and apoptosis. Thus, the expression of genes encoding TP53 and related to TP53 factors depends upon the endoplasmic reticulum stress signaling as well as on hypoxia, and correlates with suppression of glioma growth under ERN1 knockdown. The dependence of insulin-like growth binding proteins as well as IGF2BP3 and HTRA1 gene expressions in U87 glioma cells on ERN1 signaling enzyme function and hypoxia, indicating its participation in the regulation of metabolic and proliferative processes via IGF/INS receptors, because endoplasmic reticulum stress is an important component of tumor growth and metabolic diseases.

Basic Information

Description
Recombinant Human endoribonuclease IRE1/ERN1 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Pro465-Leu977) of human endoribonuclease IRE1/ERN1 (Accession #NP_001424.3) fused with no additional amino acid.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

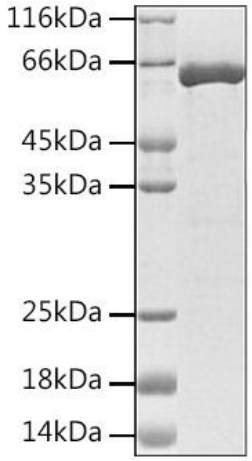
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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For research use only. Not for therapeutic or diagnostic purposes.
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Validation Data



Recombinant Human endoribonuclease IRE1/ERN1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.