ERP27 Protein, Human (HEK293, His)

Cat. No.:	HY-P70891
Synonyms:	Endoplasmic Reticulum Resident Protein 27; ER Protein 27; ERp27; ERP27; C12orf46
Species:	Human
Source:	HEK293
Accession:	Q96DN0 (E26-L273)
Gene ID:	121506
Molecular Weight:	32-38 kDa

PROPERTIES

AA Sequence	E V E K S S D G P G A A Q E P T W L T D V P A A M E F I A A T E V A V I G F F Q D L E I P A V P I L H S M V Q K F P G V S F G I S T D S E V L T H Y N I T G N T I C L F R L V D N E Q L N L E D E D I E S I D A T K L S R F I E I N S L H M V T E Y N P V T V I G L F N S V I Q I H L L L I M N K A S P E Y E E N M H R Y Q K A A K L F Q G K I L F I L V D S G M K E N G K V I S F F K L K E S Q L P A L A I Y Q T L D D E W D T L P T A E V S V E H V Q N F C D G F L S G K L L K E N R E S E G K T P K V E L
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	ERP27, a protein with a distinct role, exhibits specific binding to unfolded proteins and possesses the potential to recruit protein disulfide isomerase PDIA3 to unfolded substrates. This binding to protein substrates is facilitated through a hydrophobic pocket located in the C-terminal domain of ERP27. The protein's interaction with unfolded substrates suggests

its potential involvement in the unfolded stress response, implying a role in cellular mechanisms addressing proteostasis challenges. Additionally, ERP27 engages in interactions with PDIA3, emphasizing its association with the intricate network of cellular proteins involved in protein folding and quality control. The specific molecular interactions and binding properties of ERP27 underscore its potential significance in cellular stress responses and protein homeostasis pathways.

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