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# Recombinant human GRPEL1 protein

Catalog Number: ATGP0745

# **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

28-217aa

#### UniProt No.

O9HAV7

#### **NCBI Accession No.**

NP 079472

#### **Alternative Names**

grpE protein homolog 1 mitochondrial, FLJ25609, HMGE

# **PRODUCT SPECIFICATION**

## **Molecular Weight**

23.6 kDa (211aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

GRPEL1 is an essential component of the PAM complex, a complex required for the translocation of transit peptide-containing proteins from the inner membrane into the mitochondrial matrix in an ATP-dependent manner. This protein seems to control the nucleotide-dependent binding of mitochondrial HSP70 to substrate proteins. Recombinant human GRPEL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

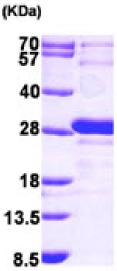
MGSSHHHHHH SSGLVPRGSH MCTATKQKNS GQNLEEDMGQ SEQKADPPAT EKTLLEEKVK LEEQLKETVE KYKRALADTE NLRQRSQKLV EEAKLYGIQA FCKDLLEVAD VLEKATQCVP KEEIKDDNPH LKNLYEGLVM TEVQIQKVFT KHGLLKLNPV GAKFDPYEHE ALFHTPVEGK EPGTVALVSK VGYKLHGRTL RPALVGVVKE A

## **General References**

Borges JC., et al. (2003) J Biol Chem. 278(37):35337-44. Hohfeld J., et al. (1997) EMBO J. 16(20):6209-16.

# **DATA**





15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

