

Recombinant human GRPEL1 protein

Catalog Number: ATGP0745

PRODUCT INFORMATION

Expression system

E.coli

Domain

28-217aa

UniProt No.

Q9HAV7

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 SGLVPRGSH MCTATKQKNS GQNLEEDMGQ SEQKADPPAT EKTLLLEEKVK LEEQLKETVE KYKRALADTE
NLRQRSQKLV EEAKLYGIQA FCKDLLEVAD VLEKATQCVP KEEIKDDNPH LKNLYEGLVM TEVQIQKVFT KHGLLKLNPV
GAKFDPYEHE ALFHTPVEGK EPGTVALVSK VGYKLHGRTL RPALVGVVKE A

General References

Borges J.C., et al. (2003) J Biol Chem. 278(37):35337-44.

Hohfeld J., et al. (1997) EMBO J. 16(20):6209-16.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)