

AR09683PU-N**Human GRPEL1 (28-217, His-tag) - Purified****Alternate names:**

GREPEL1, GrpE protein homolog 1, HMGE, Mt-GrpE#1

Quantity:

50 µg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:[Q9HAV7](#)**NCBI:**[NP_079472](#)**GeneID:**[80273](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >90%**Buffer System:** 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 1mM DTT, 10% glycerol**Description:**

Recombinant human GRPEL1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

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

Molecular weight: 23.6 kDa (211aa) confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

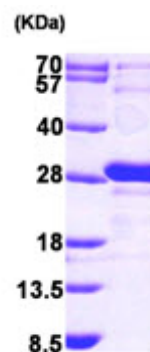
Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

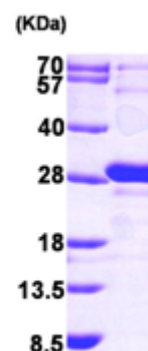
Borges JC., et al. (2003) J Biol Chem. 278(37):35337-44.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human GRPEL1, 28-217 aa,
His-tagged



15% SDS-PAGE (3ug)