

Recombinant human OLA1 protein

Catalog Number: ATGP1660

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-396aa

UniProt No.

Q9NTK5

NCBI Accession No.

NP_037473

Alternative Names

Obg-like ATPase 1, DOC45, GBP45, GTBP9, GTPBP9, PTD004

PRODUCT SPECIFICATION

Molecular Weight

47.3 kDa (420aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

Purity

> 95% 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

OLA1, also known as obg-like ATPase 1, functions as a negative regulator of the cellular antioxidant response independent of transcriptional processes. OLA1 suppresses the antioxidant response through nontranscriptional mechanisms. Recombinant human OLA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHPKPKKG GDGIKPPPII GRFGTSLKIG IVGLPNVGKS TFFNVLTSQ ASAENFPFCT

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IDPNESRVPV PDERFDFLCQ YHKPASKIPA FLNVVDIAGL VKGAHNGQGL GNAFLSHISA CDGIFHLTRA FEDDDITHVE
GSVDPIRDIE IIHEELQLKD EEMIGPIIDK LEKVAVRGGD KKLKPEYDIM CKVKSVIDQ KKPVRFYHDW NDKEIEVLNK
HLFLTSKPMV YLVNLSEKDY IRKKNKWLK IKWVDKYDP GALVIPFSGA LELKLQELSA EERQKYLEAN MTQSALPKII
KAGFAALQLE YFFTAGPDEV RAWTIRKGTK APQAAGKIHT DFEKGFIMAE VMKYEDFKEE GSENAVKAAG KYRQQGRNYI
VEDGDIIFFK FNTQQPKKK

General References

Choudhary C., et al. (2009) Science. 325:834-840

Koller-Eichhorn R., et al. (2007) J. Biol. Chem. 282:19928-19937

DATA

SDS-PAGE

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

