

Recombinant Human Obg-Like ATPase 1, His-tagged

Cat. No. OLA1-2523H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human OLA1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-396aa
Description	OLA1 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.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.1M NaCl.
Molecular Mass	47.3 kDa (420aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSHPKKG GDGIKPPPII GRFGTSLKIG IVGLPNVGKS TFFNVLNSQ ASAENPFCT IDPNESRVPV PDERFDLCQ YHKPASKIPA FLNVVDIAGL VKGAHNGQGL GNAFLSHISA CDGIFHLTRA FEDDDITHVE GSVDPIRDIE IIHEELQLKD EEMIGPIIDK LEKVAVRGGD KKLKPEYDIM CKVKSVIDQ KKPVRFYHDW NDKEIEVLNK HLFLTSPMV YLVNLSEKDY IRKKNKWLK IKWVDKYDP GALVIPFSGA LELKLQELSA

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

EERQKYLEAN MTQSALPKII KAGFAALQLE YFFTAGPDEV RAWTIRKGTK
 APQAAGKIHT DFEKGFIMAE VMKYEDFKEE GSENAVKAAG KYRQQGRNYI
 VEDGDIIFFK FNTPQQPKKK

Purity >95% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [OLA1 Obg-like ATPase 1 \[Homo sapiens \]](#)

Official Symbol OLA1

Synonyms OLA1; Obg-like ATPase 1; GTP binding protein 9 (putative) , GTPBP9; obg-like ATPase 1; PTD004; GTP-binding protein PTD004; homologous yeast-44.2 protein; GTP-binding protein 9 (putative); DNA damage-regulated overexpressed in cancer 45 protein; DOC45; GBP45; GTBP9; GTPBP9; DKFZp313H1942;

Gene ID [29789](#)

mRNA Refseq [NM_001011708](#)

Protein Refseq [NP_001011708](#)

MIM [611175](#)

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UniProt ID	Q9NTK5
Chromosome Location	2q31.1
Function	ATP binding; GTP binding; hydrolase activity; nucleotide binding;

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