

## OLA1 Human

**Description:**OLA1 Human Recombinant produced in E. coli is a single polypeptide chain containing 420 amino acids (1-396) and having a molecular mass of 47.3kDa.OLA1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-644

**Synonyms:**Obg-like ATPase 1, DNA damage-regulated overexpressed in cancer 45, DOC45, GTP-binding protein 9, OLA1, GTPBP9, PRO2455, PTD004, GBP45, GTBP9.

For research use only.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered clear solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSHMPPKKG GDGIKPPPII  
GRFGTSLKIG IVGLPNVGKS TFFNVLNLSQ ASAENFPFCT IDPNESRVPV PDERFDLFCQ  
YHKPASKIPA FLNVVDIAGL VKGAHNGQGL GNAFLSHISA CDGIFHLTRA FEDDDITHVE  
GSVDPIRDIE IIHEELQLKD EEMIGPIIDK LEKVAVRGGD KKLKPEYDIM CKVKSVIDQ  
KKPVRFYHDW ND

**Purity:**Greater than 95% as determined by SDS-PAGE.

### Formulation:

The OLA1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please avoid freeze thaw cycles.

### Usage:

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Obg-like ATPase 1 (OLA1) acts as a negative regulator of the cellular antioxidant response independent of transcriptional processes. OLA1 curbs the antioxidant response via nontranscriptional mechanisms. OLA1 hydrolyzes ATP, and can also hydrolyze GTP with lower efficiency. OLA1 is clearly down-regulated by DNA damage-inducing agents. OLA1 is expressed in all tissues; however it is more abundant in the testis, liver, lung, and brain. OLA1 is overexpressed in a number of malignancies, including cancers of the colon, rectum, ovary, lung, stomach, and uterus.

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