

## 32-2634: OLA1 Recombinant Protein

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

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 95% as determined by SDS-PAGE.
<b>Content :</b>	The OLA1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSSLVPRGSH MGSHPMPKKG GDGKPPPII GRFGTSLKIG IVGLPNVGKS TFFNVLNLSQ ASAENFPFCT IDPNESRVPV PDERFDLFCQ YHKPASKIPA FLNVVDIAGL VKGAHNGQGL GNAFLSHISA CDGIFHLTRA FEDDDITHVE GSVDPIRDIE IIEELQLKD EEMIGPIIDK LEKVAVRGGD KKLKPEYDIM CKVKSVIDQ KKPVRFYHDW NDKEIEVLNK HLFLTSPKPMV YLVNLSEKDY IRKKNKWLK IKWVDKYDP GALVIPFSGA LELKLQELSA EERQKYLEAN MTQSALPKII KAGFAALQLE YFFTAGPDEV RAWTIRKGTK APQAAGKIHT DFEKGFIMAE VMKYEDFKEE GSENAVKAAG KYRQQGRNYI VEDGDIIFFK FNTPQQPKKK.

