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**Product Data Sheet**


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Product Name: OLA1 Human  
 Cat. No.: GP22035  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Obg-like ATPase 1; DNA damage-regulated overexpressed in cancer 45; DOC45; GTP-binding protein 9; OLA1; GTPBP9; PRO2455; PTD004; GBP45; GTBP9.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHPMPKKG GDGIKPPPII GRFGTSLKIG IVGLPNVGKS TFFNVLTNSQ ASAENFPFCT IDPNESRVPV PDERFDFLCQ YHKPASKIPA FLNVVDIAGL VKGAHNGQGL GNAFLSHISA CDGIFHLTRA FEDDDITHVE GSVDPIRDIE IIHEELQLKD EEMIGPIIDK LEKVAVRGGD KKLKPEYDIM CKVKSVIDQ KKPVRFYHDW NDKEIEVLNK HLFLLTSKPMV YLVNLSEKDY IRKKNKWLK IKEWVDKYDP GALVIPFSGA LELKLQELSA EERQKYLEAN MTQSALPKII KAGFAALQLE YFFTAGPDEV RAWTIRKGTK APQAAGKIHT DFEKGFIMAE VMKYEDFKEE GSENAVKAAG KYRQQGRNYI VEDGDIIFFK FNTTPQQPKKK.		
Formulation	The OLA1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.		

**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.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

### Background

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.

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