

## ATOX1 Human

**Description:** ATOX1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 88 amino acids (1-68 a.a.) and having a molecular mass of 9.5kDa. ATOX1 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #:PRPS-761

For research use only.

**Synonyms:** Antioxidant protein 1, ATX1, HAH1, Copper transport protein ATOX1, Metal transport protein ATX1, ATOX1, MGC138453, MGC138455.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MPKHEFSVDM TCGGCAEAVS  
RVLNKLGGVK YDIDLPNKKV CIESEHSDMT LLATLKKTGK TVSYLGLE.

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

**Formulation:**

ATOX1 solution containing 20mM Tris pH-8, 1mM DTT and 10% glycerol.

**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 prevent freeze thaw cycles.

**Usage:**

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**Introduction:**

ATOX1 is a metal transport protein that is part of the ATX1 family. ATOX1 is a copper chaperone that takes part in cellular antioxidant defense and can bind and deliver cytosolic copper to the copper ATPase proteins in the trans-Golgi network for later incorporation to the ceruloplasmin. ATOX1 plays a role as an antioxidant against superoxide and hydrogen peroxide, and consequently, takes an important part in cancer carcinogenesis. Because of ATOX1 cytogenetic location, the gene can be a good candidate gene for 5q-syndrome.

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