

# Recombinant Human ATOX1

**Cat. No.** ATOX1-26679TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human ATOX1 produced in <i>Saccharomyces cerevisiae</i> ; amino acids 1-68 with 26 kDa tag. Molecular weight with tag is 34 kDa.
<b>Species</b>	Human
<b>ProteinLength</b>	1-68 a.a.
<b>Description</b>	This gene encodes a copper chaperone that plays a role in copper homeostasis by binding and transporting cytosolic copper to ATPase proteins in the trans-Golgi network for later incorporation to the ceruloplasmin. This protein also functions as an antioxidant against superoxide and hydrogen peroxide, and therefore, may play a significant role in cancer carcinogenesis. Because of its cytogenetic location, this gene represents a candidate gene for 5q-syndrome.
<b>Tissue specificity</b>	Ubiquitous.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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<b>Sequences of amino acids</b>	MPKHEFSVDMTCGGCAEAVSRVLNKLGGVKYDIDLPNKKV CIESEHSMDTLLATLK KTGKTVSYLGLE
<b>Sequence Similarities</b>	Belongs to the ATX1 family.Contains 1 HMA domain.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">ATOX1 ATX1 antioxidant protein 1 homolog (yeast) [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">ATOX1</a>
<b>Synonyms</b>	ATOX1; ATX1 antioxidant protein 1 homolog (yeast); ATX1 (antioxidant protein 1, yeast) homolog 1; copper transport protein ATOX1; HAH1;
<b>Gene ID</b>	<a href="#">475</a>
<b>mRNA Refseq</b>	<a href="#">NM_004045</a>
<b>Protein Refseq</b>	<a href="#">NP_004036</a>
<b>MIM</b>	<a href="#">602270</a>
<b>Uniprot ID</b>	<a href="#">O00244</a>
<b>Chromosome Location</b>	5q32
<b>Pathway</b>	Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem;

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**Function**

copper chaperone activity; copper ion binding; copper-dependent protein binding;  
metal ion binding; metallochaperone activity;

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