

Recombinant Human ATOX1

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

SPECIFICATION

Product Overview	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.
Species	Human
ProteinLength	1-68 a.a.
Description	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.
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

Function

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

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