

Recombinant Human ATOX1, His-tagged

Cat. No. ATOX1-26191TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human ATOX1 with N terminal His tag; 88 amino acids with a predicted MWt 9.5kDa including tag.
Species	Human
Source	E.coli
ProteinLength	68 amino acids
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.
Conjugation	HIS
Molecular Weight	9.500kDa inclusive of tags
Tissue specificity	Ubiquitous.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	pH: 8.00Constituents:0.24% Tris, 0.02% DTT, 10% Glycerol
Storage	Store at -20°C or lower.Aliquot to avoid repeated freezing and thawing.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMPKHEFSVDMTCGGCAEAVSRVLNKLGGVKYDIDL PNKKVCIESEHSMDTLLATLKTGKTVSYLGLE
Sequence Similarities	Belongs to the ATX1 family.Contains 1 HMA domain.

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

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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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