Recombinant Human ATX1 Antioxidant Protein 1 Homolog (yeast), His-tagged

Cat. No. ATOX1-6909H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ATOX1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 9.5 kDa.
Species	Human
Source	E.coli
ProteinLength	1-68aa
Description	Copper transport protein ATOX1, also known as HAH1, a metal transport protein that belongs to the ATX1 family. ATOX1 is involved in cellular antioxidant defense and can bind and deliver cytosolic copper to the copper ATPase proteins. 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
Molecular Mass	9.5 kDa (88aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MPKHEFSVDM TC GGCAEAVS RVLNKLGGVK YDIDLPNKKV CIESEHSMDT LLATLKKTGK TVSYLGLE
Purity	>95% by SDS-PAGE

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Applications	SDS-PAGE
Storage	Can be stored at 4℃ short term (1-2 weeks). For long term storage, aliquot and store at -20℃ or -70℃. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

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; metal transport protein ATX1; ATX1; MGC138453; MGC138455;
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

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

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