

Recombinant human ATOX1 protein

Catalog Number: ATGP0434

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-68aa

UniProt No.

O00244

NCBI Accession No.

NP_004036

Alternative Names

Copper transport protein ATOX1, Antioxidant protein 1, ATX1, HAH1, Copper transport protein ATOX1 ATX1, Copper transport protein, Metal transport protein.

PRODUCT SPECIFICATION

Molecular Weight

9.5 kDa (88aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 cytotgenetic location, this gene represents a candidate gene for 5q-syndrome. Recombinant human ATOX1, fused to His-tag at N-terminus, was expressed in

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E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MPKHEFSVDM TCGGCAEAVS RVLNKLGGVK YDIDLPNKKV CIESEHSMMDT LLATLKKTGK TVSYLGLG

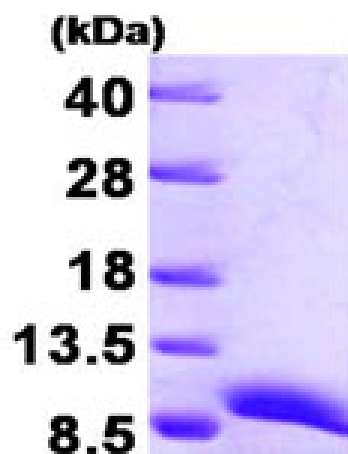
General References

Klomp LW., et al. (1997) J Biol Chem. 272(14):9221-6.

Hamzal I., et al. (1999) Proc Natl Acad Sci uSA. 96(23):13363-8.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)