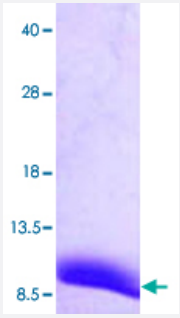
Full-Length

ATOX1 (Human) Recombinant Protein

Catalog # P3546 Size 100 ug

Applications



Specification

Product Description	Human ATOX1 (NP_004036, 1 a.a. - 68 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMPKHEFSVDMTCGGCAEAVSRVLNKLGGVKYDIDLPNKKVCIE SEHSMDTLLATLKKTGKTVSYLGLE
Host	Escherichia coli
Theoretical MW (kDa)	9.5
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purification	Conventional Chromatography
Concentration	1 mg/mL
Purity	> 95% by SDS-PAGE
Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl buffer, pH 8.0 (1 mM DTT, 10% glycerol).

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Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — ATOX1

Entrez GeneID	475
Protein Accession#	NP_004036
Gene Name	ATOX1
Gene Alias	ATX1, HAH1, MGC138453, MGC138455
Gene Description	ATX1 antioxidant protein 1 homolog (yeast)
Omim ID	602270
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	antioxidant protein 1|copper transport protein|metal transport protein

Disease

- Genetic Predisposition to Disease
- Hepatolenticular Degeneration

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