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## Product Data Sheet

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Product Name: ATOX1 Human

Cat. No.: GP22798

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Antioxidant protein 1; ATX1; HAH1; Copper transport protein ATOX1; Metal transport protein ATX1; ATOX1; MGC138453; MGC138455.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MPKHEFSVDM TCGGCAEAVS RVLNKLGGVK YDIDLPNKKV CIESEHSMMDT LLATLKKTKG TVSYLGL.		
Formulation	ATOX1 solution containing 20mM Tris pH-8, 1mM DTT and 10% glycerol.		

**Introduction**

ATOX1 is a metal transport protein that is part of the ATX1 family. ATOX1 is a copper chaperone that takes part in cellular antioxidant defense and can bind and deliver cytosolic copper to the copper ATPase proteins in the trans-Golgi network for later incorporation to the ceruloplasmin. ATOX1 plays a role as an antioxidant against superoxide and hydrogen peroxide, and consequently, takes an important part in cancer carcinogenesis. Because of ATOX1 cytogenetic location, the gene can be a good candidate gene for 5q-syndrome.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze thaw cycles.

**Background**

ATOX1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 88 amino acids (1-68 a.a.) and having a molecular mass of 9.5kDa. ATOX1 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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