

ATOX1 Protein, Human (His)

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| Cat. No.: | HY-P75585 |
| Synonyms: | Copper transport protein ATOX1; Metal transport protein ATX1; HAH1 |
| Species: | Human |
| Source: | E. coli |
| Accession: | O00244 (M1-E68) |
| Gene ID: | 475 |
| Molecular Weight: | Approximately 9 kDa |

PROPERTIES

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| AA Sequence | M P K H E F S V D M T C G G C A E A V S R V L N K L G G V K Y D I D L P N K K V C I E S E H S M D T L L A T L K K T G K T V S Y L G L E |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | <p>The ATOX1 protein serves a crucial role in cellular copper transport by binding to and delivering cytosolic copper to copper ATPase proteins. This process is integral to cellular antioxidant defense mechanisms. ATOX1 functions as a homodimer, as indicated by research findings (source: PubMed:24837030). Additionally, it interacts with ATP7B (source: PubMed:10966647) and ATP7A (sources: PubMed:21667063, PubMed:19453293). The protein, in its dimer form, also interacts with SLC31A1 via its C-terminal domain, contributing to ATOX1 stability and controlling intracellular Cu(I) levels (sources: PubMed:24837030, PubMed:26745413).</p> |
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Caution: Product has not been fully validated for medical applications. For research use only.

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