Recombinant Human ATP7A Protein, His-tagged

Cat. No. ATP7A-273H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP7A Protein (Ser9-Leu444) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser9-Leu444
Description	This gene encodes a transmembrane protein that functions in copper transport across membranes. This protein is localized to the trans Golgi network, where it is predicted to supply copper to copper-dependent enzymes in the secretory pathway. It relocalizes to the plasma membrane under conditions of elevated extracellular copper, and functions in the efflux of copper from cells. Mutations in this gene are associated with Menkes disease, X-linked distal spinal muscular atrophy, and occipital horn syndrome. Alternatively-spliced transcript variants have been observed.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 51 kDa Accurate Molecular Mass: 51 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	ATP7A ATPase, Cu++ transporting, alpha polypeptide [Homo sapiens (human)]
Official Symbol	ATP7A
Synonyms	ATP7A; ATPase, Cu++ transporting, alpha polypeptide; Menkes syndrome, MNK; copper-transporting ATPase 1; copper pump 1; Cu++-transporting P-type ATPase; Menkes disease-associated protein; MK; MNK; DSMAX; SMAX3; FLJ17790
Gene ID	538
mRNA Refseq	NM_000052
Protein Refseq	NP_000043
MIM	300011
UniProt ID	Q04656

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