

Recombinant Human ATP7A

Cat. No. ATP7A-27417TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1406-1500 of Human ATP7A with an N terminal proprietary tag; Predicted MWt 36.08 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	95 amino acids
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 cutis laxa, and occipital horn syndrome.
Molecular Weight	36.080kDa inclusive of tags
Tissue specificity	Found in most tissues except liver. Isoform 3 is widely expressed including in liver cell lines. Isoform 1 is expressed in fibroblasts, choriocarcinoma, colon carcinoma and neuroblastoma cell lines. Isoform 2 is expressed in fibroblasts, colon carcinoma a
Form	Liquid
Purity	Proprietary Purification

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	FLKLYRKPTYESYELPARSQIGQKSPSEISVHVGIDDTSRNSPKLGLLDRIVNYSRASINSLLSDKRSLNSVVTSEPDKHSLLVGDFREDDDTAL
Sequence Similarities	Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IB subfamily.Contains 6 HMA domains.

GENE INFORMATION

Gene Name	ATP7A ATPase, Cu++ transporting, alpha polypeptide [Homo sapiens]
Official Symbol	ATP7A
Synonyms	ATP7A; ATPase, Cu++ transporting, alpha polypeptide; Menkes syndrome , MNK; copper-transporting ATPase 1;
Gene ID	538
mRNA Refseq	NM_000052
Protein Refseq	NP_000043
MIM	300011
Uniprot ID	Q04656
Chromosome Location	Xq21.1

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Pathway	Ion channel transport, organism-specific biosystem; Ion transport by P-type ATPases, organism-specific biosystem; Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem; Transmembrane transport of small molecules, organism-specific biosystem;
Function	ATP binding; ATP binding; ATPase activity, coupled to transmembrane movement of ions, phosphorylative mechanism; copper ion binding; copper ion binding;

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