

Recombinant Mouse Atp7a Protein, His-tagged

Cat. No. Atp7a-274M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Atp7a Protein (Ser9-Leu444) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Ser9-Leu444
Description	Enables P-type divalent copper transporter activity and superoxide dismutase copper chaperone activity. Acts upstream of or within several processes, including animal organ development; cellular biogenic amine metabolic process; and copper ion transport. Located in several cellular components, including cytoplasmic vesicle membrane; neuronal cell body; and trans-Golgi network membrane. Is expressed in several structures, including genitourinary system; gut mucosa; liver; spleen; and thoracic ganglion. Used to study Menkes disease; X-linked distal spinal muscular atrophy 3; aortic aneurysm; and osteoarthritis. Human ortholog(s) of this gene implicated in Menkes disease; X-linked distal spinal muscular atrophy 3; cutis laxa; and occipital horn syndrome. Orthologous to human ATP7A (ATPase copper transporting alpha).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 50.7 kDa Accurate Molecular Mass: 51 kDa

 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

Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 [Mus musculus (house mouse)]
Official Symbol	Atp7a
Synonyms	ATP7A; ATPase, Cu ⁺⁺ transporting, alpha polypeptide; copper-transporting ATPase 1; copper pump 1; Menkes protein; menkes disease-associated protein homolog; Mo; br; Blo; l14; MNK; blotchy; mottled; brindled; DXHXS1608e
Gene ID	11977
mRNA Refseq	NM_001109757

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Protein Refseq	NP_001103227
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UniProt ID	Q64430
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