Recombinant Mouse Atp7b Protein, His-tagged

Cat. No. Atp7b-275M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Atp7b Protein (Gln1369-Ile1462) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Gln1369-Ile1462
Description	Enables P-type divalent copper transporter activity. Acts upstream of or within several processes, including cellular transition metal ion homeostasis; lactation; and protein maturation by copper ion transfer. Located in membrane and trans-Golgi network. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; respiratory system; and sensory organ. Used to study Wilson disease. Human ortholog(s) of this gene implicated in Wilson disease. Orthologous to human ATP7B (ATPase copper transporting beta).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 14.3 kDa Accurate Molecular Mass: 14 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

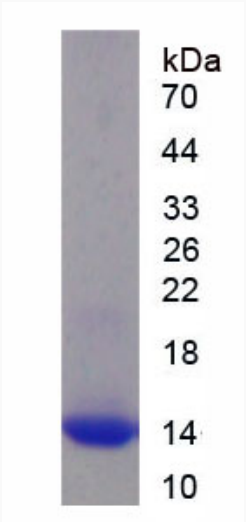
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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. 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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 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	Atp7b ATPase, Cu++ transporting, beta polypeptide [Mus musculus (house mouse)]
Official Symbol	Atp7b
Synonyms	ATP7B; ATPase, Cu++ transporting, beta polypeptide; copper-transporting ATPase 2; toxic milk; copper pump 2; Wilson protein; wilson disease-associated protein homolog; tx; WND; Atp7a
Gene ID	11979
mRNA Refseq	NM_007511
Protein Refseq	NP_031537
UniProt ID	Q64446

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