Recombinant Human ATP7B Protein, His-tagged

Cat. No. ATP7B-467H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP7B(Thr59~Val426) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr59~Val426
Description	This gene is a member of the P-type cation transport ATPase family and encodes a protein with several membrane-spanning domains, an ATPase consensus sequence, a hinge domain, a phosphorylation site, and at least 2 putative copper-binding sites. This protein functions as a monomer, exporting copper out of the cells, such as the efflux of hepatic copper into the bile. Alternate transcriptional splice variants, encoding different isoforms with distinct cellular localizations, have been characterized. Mutations in this gene have been associated with Wilson disease (WD).
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	42.9kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	> 98%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
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.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	ATP7B ATPase, Cu++ transporting, beta polypeptide [Homo sapiens]
Official Symbol	ATP7B
Synonyms	ATP7B; ATPase, Cu++ transporting, beta polypeptide; ATPase, Cu++ transporting, beta polypeptide (Wilson disease) , WND; copper-transporting ATPase 2; Wilson disease; copper pump 2; Wilson disease-associated protein; ATPase, Cu(2+)-transporting, beta polypeptide; WD; PWD; WC1; WND;
Gene ID	540
mRNA Refseq	NM_000053
Protein Refseq	NP_000044
MIM	606882

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UniProt ID	P35670

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