

Recombinant Human ATP7B Protein, His tagged

Cat. No. ATP7B-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Human ATPase, Cu ⁺⁺ transporting, beta polypeptide (ATP7B), transcript variant 1, 200His-482Thr, with N-terminal His tag, expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	200-482 aa
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 is a monomer, and functions as a copper-transporting ATPase which exports 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 which is characterized by copper accumulation.
Tag	N-His
Molecular Mass	31.9kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Storage Buffer	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10% glycerol
Concentration	> 0.05 µg/µL as determined by microplate BCA method
GENE INFORMATION	
Gene Name	ATP7B ATPase copper transporting beta [Homo sapiens (human)]
Official Symbol	ATP7B
Synonyms	ATP7B; ATPase copper transporting beta; WD; PWD; WC1; WND; copper-transporting ATPase 2; ATPase, Cu(2+)- transporting, beta polypeptide; ATPase, Cu++ transporting, beta polypeptide; Wilson disease-associated protein; copper pump 2; copper-transporting protein ATP7B; EC 7.2.2.8
Gene ID	540
mRNA Refseq	NM_000053
Protein Refseq	NP_000044
MIM	606882

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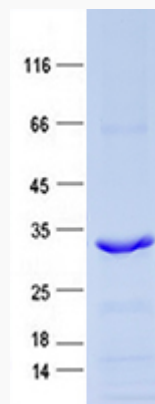
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UniProt ID

P35670

SDS-PAGE

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