

Recombinant Human ATP7B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ATP7B-3895H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ATP7B MS Standard C13 and N15-labeled recombinant protein (NP_000044) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	157.1 kDa
AA Sequence	MPEQERQITAREGASRKILSKLSLPTRAWEPMKKSFADFNVGYEGGLDGLGPSSQ VATSTVRILGMTQCSCVKSIEDRISNLKGIISMKVSLEQGSATVKYVPSVCLQVCH QIGDMGFASIAEGKAASWPSRSLPAQEAVVKLRVEGMTQCSCVSSIEGKVRKLQG VVRVKVLSLNQEAVITYQPYLIQPEDLRDHVNDMGFEAAIKSKVAPLSLGPIDIERLQS TNPKRPLSSANQNFNNSETLGHQGSVVTLQLRIDGMHCKSCVLNIEENIGQLLGVS

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SIQVSLENKTAQVKYDPSCTSPVALQRAIEALPPGNFKVSLPDGAEGSGTDHRSSSS
HSPGSPPRNQVQGTCTTLIAIAGMTCASCVHSIEGMISQLEGVQQISVSLAEGTATV
LYNPAVISPEELRAAIEDMGFEASVVSESCSTNPLGNHSAGNSMVQTTDGTPTSLQE
VAPHTGRLPANHAPDILAKSPQSTRAVAPQKCFLLQIKGMTASCVSNIERNLQKEAG
VLSVLVALMAGKAEIKYDPEVIQPLEIAQFIQDLGFEEAVMEDYAGSDGNIELTITGMT
CASCVHNIESKLTRTNIGITYASVALATSKALVKFDPEIIGPRDIIKIIIEIGFHASLAQRN
PNAHHLDHKMEIKQWKKSFLCSLVFGIPVMALMIYMLIPSNEPHQSMVLDHNIIPGLSI
LNLIFILCTFVQLLGGWYFYVQAYKSLRHRSANMDVLIVLATSIAVYVSLVILVVAE
KAERSPVTFDDTPPMLFVFIALGRWLEHLAKSKTSEALAKLMSLQATEATVVTLGED
NLIREEQVPMELVQRGDIVRVVPGGKFPVDGKVLEGNTMADESLITGEAMPVTKKP
GSTVIAGSINAHGSVLIKATHVGNDDTLAQIVKLVEEAQMSKAPIQQLADRFSGYFVP
FIIIMSTLTLVWVWVIGFIDFGVVQKYFPNPNKHISQTEVIIRFAFQTSITVLCIACPCSLG
LATPTAVMVGTGVAAQNGILIKGGKPLEMAHKIKTVMFDKTGTITHGVPRVMRVLLLG
DVATLPLRKVLAVVGTAESSEHPLGVAVTKYCKEELGTETLGCTDFQAVPGCGIG
CKVSNVEGILAHSERPLSAPASHLNEAGSLPAEKDAAPQTFSVLIGNREWLRRNGLT
ISSDVS DAMTDHEMKGQTALVAIDGVLGCMIAIADAVKQEAAALAVHTLQSMGVDVVL
ITGDNRK TARAIATQVGINKVFAEVLPSHKVAKVQELQNKGGKVAMVGDGVNDSPAL
AQADMGVAIGTGTDAIEAADVVLIRNDLLDVVASIHL SKRTVRRIRINLV LALIYNLVGI
PIAAGVFMPIGIVLQPWMGSAAMAASSVSVLSSLQLKCYKKPD LERYEAQAHGHM
KPLTASQVSVHIGMDDRWRDSPRATPWDQVSYVSQVLSLSTSDKPSRHSAAADD
DGDKWSLLLNGRDEEQYITRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

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Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [ATP7B ATPase copper transporting beta \[Homo sapiens \(human\) \]](#)

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](#)

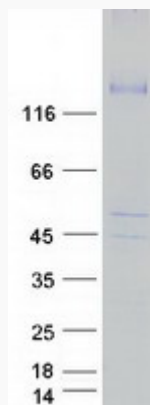
MIM [606882](#)

UniProt ID [P35670](#)

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SDS-PAGE

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