

Recombinant Full Length Human ATP7B Protein, C-Flag-tagged

Cat. No. ATP7B-33HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ATP7B Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	157.1 kDa
AA Sequence	MPEQERQITAREGASRKILSKLSLPTRAWEPMKKSFADFNVGYEGGLDGLGPSSQ VATSTVRILGMTCCQ SCVKSIEDRISNLKGIISMKVSLEQGSATVKYVPSVVCLQQVCH QIGDMGFESIAEGKAASWPSRSLPA QEAVVKLRVEGMTCCQSCVSSIEGKVRKLQ GVVRVKVSLSNQEAVITYQPYLIQPEDLRDHSVNDMGFEAAI KSKVAPLSLGPIDIERL

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QSTNPKRPLSSANQNFNNSETLGHQGSHVVTLQLRIDGMHCKSCVLNIEENIG QLL
 GVQSIQVSLENKTAQVKYDPSCTSPVALQRAIEALPPGNFKVSLPDGAEGSGTDHR
 SSSSHSPGSPP RNQVQGTCTTLIAIAGMTCASCVHSIEGMISQLEGVQQISVSLAE
 GTATVLYNPAVISPEELRAAIEDM GFEASVVSESCSTNPLGNHSAGNSMVQTTDGT
 PTLQEVAPHTGRLPANHAPDILAKSPQSTRAVAPQKC FLQIKGMTASCVSNIERN
 LQKEAGVLSVLVALMAGKAEIKYDPEVIQPLEIAQFIQDLGFEEAVMEDYA GSDGNIE
 LTITGMTASCVHNIESKLTRTNGITYASVALATSKALVKFDPEIIGPRDIIKIEEIGFHA
 S LAQRNPNAHHLDHKMEIKQWKKSFLCSLVFGIPVMALMIYMLIPSNEPHQSMVLD
 HNIIPGLSILNLIFF ILCTFVQLLGGWYFYVQAYKSLRHRSANMDVLIVLATSIAVYVSL
 VILVVAEKAERSPVTFFDTPPML FVFIALGRWLEHLAKSKTSEALAKLMSLQATEA
 TVVTLGEDNLIREEQVPMELVQRGDIVRVVPGGKFP VDGKVLEGNTMADESLITGE
 AMPVTKKPGSTVIAGSINAHGSVLKATHVGNDDTLAQIVKLVEEAQMSK APIQQLAD
 RFSGYFVFPFIIMSTLTLVVWIVIGFIDFGVVQKYFPNPNKHISQTEVIIRFAFQTSITVLC
 IACPCSLGLATPTAVMVGTVAAQNGILIKGGKPLEMAHKIKTVMFDKTGTITHGVPR
 VMRVLLLGDVAT LPLRKVLAVVGTAEEASSEHPLGVAVTKYCKEELGTETLGYCTDF
 QAVPGCGIGCKVSNVEGILAHSERPL SAPASHLNEAGSLPAEKDAAPQTFSVLIGNR
 EWLRRNGLTISSDVSDAMTDHEMKGQTALVAIDGVLCG MIAIADAVKQEAALAVHT
 LQSMGVDVVLITGDNRKTAIAIATQVGINKVFAEVLPSHKVAKVQELQNKKG KVM
 VGDGVNDSPALAQADMGVAIGTGTDAIEAADVVLIRNDLLDVVASIHLKRTVRRIRI
 NLVLALI YNLVGPIAAGVFMPIGIVLQPWMGSAAMAASSVSVLSSLQLKCYKKPDL
 ERYEAQAHGHMKPLTASQV SVHIGMDDRWRDSPRATPWDQVSYSVSVLSLSSLT
 DKPSRHSAAADDDGDKWSLLLNGRDEEQYITRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

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

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.

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Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Full Length	Full L.

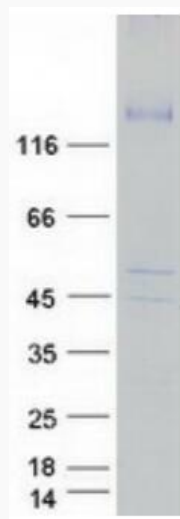
GENE INFORMATION

Gene Name	ATP7B ATPase copper transporting beta [Homo sapiens (human)]
Official Symbol	ATP7B
Synonyms	WD; PWD; WC1; WND
Gene ID	540
mRNA Refseq	NM_000053.4
Protein Refseq	NP_000044.2
MIM	606882
UniProt ID	P35670

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Coomassie blue staining of purified ATP7B protein.

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