

Datasheet for ABIN7552518

ATP7B Protein (AA 1-1465) (His tag)



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Overview

Quantity:	1 mg
Target:	ATP7B
Protein Characteristics:	AA 1-1465
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP7B protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP7B Protein expressed in mammalian cells.
Sequence:	MPEQERQITA REGASRKILS KLSLPTRAWE PAMKKSFAFD NVGYEGGLDG LGPSSQVATS TVRILGMTCC SCVKSIEDRI SNLKGIISMK VSLEQGSATV KYVPSVVCLQ QVCHQIGDMG FEASIAEGKA ASWPSRSLPA QEAVVKLRVE GMTCQSCVSS IEGKVRKLQG VVRVKVLSLN QEAVITYQPY LIQPEDLRDH VNDMGFEAAI KSKVAPLSLG PIDIERLQST NPKRPLSSAN QNFNNSETLG HQGSHVVTLQ LRIDGMHCKS CVLNIEENIG QLLGVQSIQV SLENKTAQVK YDPSCCTSPVA LQRAIEALPP GNFKVSLPDG AEGSGTDHRS SSSHSPGSPP RNQVQGTCTST TLIAIAGMTC ASCVHSIEGM ISQLEGVQVI SVSLAEGTAT VLYNPSVISP EELRAAIEDM GFEASVVSES CSTNPLGNHS AGNSMVQTTD GTPTSVQEVA PHTGRLPANH APDILAKSPQ STRAVAPQKC FLQIKGMTCA SCVSNIERNL QKEAGVLSVL VALMAGKAEI KYDPEVIQPL EIAQFIQDLG FEAVMEDYA GSDGNIELTI TGMTCASCVH NIESKLTRTN GITYASVALA TSKALVKFDP EIIGPRDIIK IIEEIGFHAS LAQRNPNAHH LDHKMEIKQW KKSFLCSLVF GIPVMALMIY MLIPSNEPHQ SMVLDHNIIP GLSILNLIFF ILCTFVQLLG GWYFYVQAYK

SLRHRSANMD VLIVLATSIA YVYSLVILVV AVAEKAERSP VTFFDTPPML FVFIALGRWL
EHLAKSKTSE ALAKLMSLQA TEATVVTLGE DNLIREEQV PMELVQRGDI VKVVPGGKFP
VDGKVLEGNT MADESLITGE AMPVTKKPGS TVIAGSINAH GSVLIKATHV GNDTTLAQIV
KLVEEAQMSK APIQQLADRF SGYFVPFIII MSTLTLVWWI VIGFIDFGVV QRYFPNPNKH
ISQTEVIIRF AFQTSITVLC IACPCSLGLA TPTAVMVG TG VAAQNGILIK G GKPLEMAHK
IKTVMFDKTG TITHGVPRVM RVLLLGDVAT LPLRKVLAVV GTAEASSEHP LGVAVTKYCK
EELGTETLGY CTDFQAVPGC GIGCKVSNE GILAHSERPL SAPASHLNEA GSLPAEKDAV
PQTFSVLIGN REWLRRNGLT ISSDVSDAMT DHEMKGQTAI LVAIDGVLCG MIAIADAVKQ
EAALAVHTLQ SMGVDVVLIT GDNRKRTARAI ATQVGINKVF AEVLPSHKVA KVQELQNK GK
KVAMVGDGVN DSPALAQADM GVAIGTGTDV AIEAADVVLI RNDLLDVVAS IHL SKRTVRR
IRINLVLALI YNLVGIPIAA GVFMPIGIVL QPWMGSAAMA ASSVSVLSS LQLKCYKKPD
LERYEAQAHG HMKPLTASQV SVHIGMDDRWD SPRATPWD QVSYSQVSL SSLTSDKPSR
HSAAADDDGD KWSLLNGRD EEQYI **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	ATP7B
Alternative Name:	ATP7B (ATP7B Products)
Background:	Copper-transporting ATPase 2 (EC 7.2.2.8) (Copper pump 2) (Wilson disease-associated protein) [Cleaved into: WND/140 kDa],FUNCTION: Copper ion transmembrane transporter involved in the export of copper out of the cells. It is involved in copper homeostasis in the liver, where it ensures the efflux of copper from hepatocytes into the bile in response to copper overload. {ECO:0000269 PubMed:18203200, ECO:0000269 PubMed:22240481, ECO:0000269 PubMed:24706876, ECO:0000269 PubMed:26004889}.
Molecular Weight:	157.3 kDa
UniProt:	P35670
Pathways:	Transition Metal Ion Homeostasis , Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months