

Datasheet for ABIN3113480

ATP7B Protein (AA 1-1465) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ATP7B
Protein Characteristics:	AA 1-1465
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP7B protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MPEQERQITA REGASRKILS KLSLPTRAWE PAMKKSFADF NVGYEGGLDG LGPSSQVATS</p> <p>TVRILGMTCC SCVKSIEDRI SNLKGIISMV VSLEQGSATV KYVPSVCLQ QVCHQIGDMG</p> <p>FEASIAEGKA ASWPSRSLPA QEAVVKLRVE GMTCQSCVSS IEGKVRKLQG VVRVKVSLSN</p> <p>QEAIVITYQPY LIQPEDLRDH VNDMGFEAAI KSKVAPLSLG PIDIERLQST NPKRPLSSAN</p> <p>QNFNNSETLG HQGSHVVTQ LRIDGMHCKS CVLNIEENIG QLLGVQSIQV SLENKTAQVK</p> <p>YDPSCTSPVA LQRAIEALPP GNFKVSLPDG AEGSGTDHRS SSSHSPGSPP RNQVQGTCT</p> <p>TLIAIAGMTC ASCVHSIEGM ISQLEGVQVI SVSLAEGTAT VLYNPSVISP EELRAAIEDM</p> <p>GFEASVSES CSTNPLGNHS AGNSMVQTTD GTPTSVQEVA PHTGRLPANH APDILAKSPQ</p> <p>STRAVAPQKC FLQIKGMTCA SCVSNIERNL QKEAGVLSVL VALMAGKAEI KYDPEVIQPL</p> <p>EIAQFIQDLG FEAAMVEDYA GSDGNIETI TGMTCASCVH NIESKLTRTN GITYASVALA</p> <p>TSKALVKFDP EIIGPRDIK IIEIGFHAS LAQRNPNAHH LDHKMEIKQW KKSFLCSLVF</p>

GIPVMALMIY MLIPSNEPHQ SMVLDHNIIP GLSILNLIFF ILCTFVQLLG GWYFYVQAYK
SLRHR SANMD VLIVLATSIA YVYSLVILVV AVAEKAERSP VTFFDTPPML FVFIALGRWL
EHLAKSKTSE ALAKLMSLQA TEATVVTLGE DNLIREEQV PMELVQRGDI VKVVPGGKFP
VDGKVLGNT 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
KVAMVG DGVN DSPALAQADM GVAIGTGTDV AIEAADVLI RNDLLDVAS IHL SKRTVRR
IRINLV LALI YNLVGIPIAA GVFMPIGIVL QPWMGSAAMA ASSVSVLSS LQLKCYKKPD
LERYEAQAHG HMKPLTASQV SVHIGMDDR W RDS PRATPWD QVSYSQVSL SSLTSDKPSR
HSAAADDDGD KWSLLN GRD EEQYI

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for

Product Details

protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, 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:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.</p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months