

Product datasheet

Recombinant Human ATP5A protein (Tagged)
ab235845

3 Images

Description

Product name	Recombinant Human ATP5A protein (Tagged)
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P25705
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>QKTGTAEMSSILEERILGADTSVDLEETGRVLSIGDGLA RVHGLRNVQAE EMVEFSSGLKGMSLNLEPDNVGVVVFNDKLIKEGDI VKRTGAMDVPVG EELLGRVVDALGNAIDGKGPIGSKTRRRVGLKAPGIIPRI SVREPMQTGI KAVDSLVPPIGRGQRELIIGDRQTGKTSIAIDTIINQKRFND GSDEKKKLY CIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATASDA APLQYLAPYSG CSMGEYFRDNGKHALIYDDLKQAVAYRQMSLLLRP PGREAYPGDVFY LHSRLLERAAMNDAFGGGSLTALPVIETQAGDVSAYI PTNVISITDGGI FLETIFYKGIKIRPAINVGLSVSRVGSAAQTRAMKQVAG TMKLELAQYREV AAFAQFGSDLDAATQQLSRGVRLTELLKQGQYSPMA IEEQVAVIYAGVR GYLDKLEPSKITKFENAFLSHVVSQHQALLGTIRADGKI SEQSDAKLKEIVTNFLAGFEA</p>
Predicted molecular weight	71 kDa including tags
Amino acids	44 to 553
Tags	His tag N-Terminus

Additional sequence information Full-length mature chain lacking the transit peptide. N-terminal 6xHis-SUMO-tagged.

Specifications

Our [Abpromise guarantee](#) covers the use of **ab235845** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	LC-MS/MS
Form	Liquid

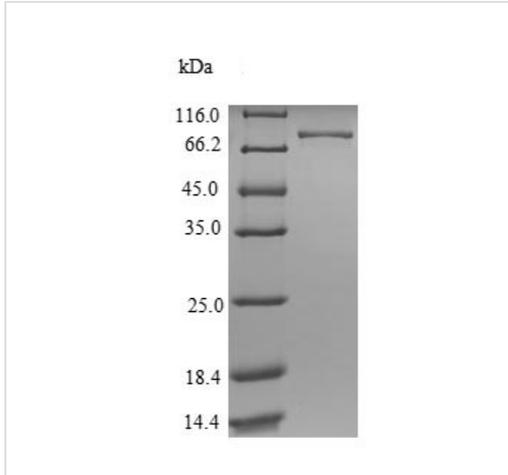
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Constituents: Tris buffer, 50% Glycerol
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General Info

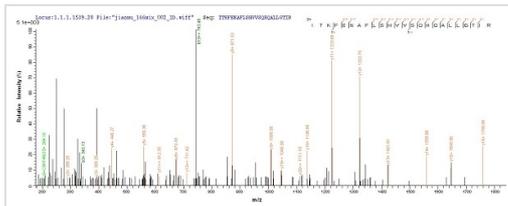
Function	Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits. Subunit alpha does not bear the catalytic high-affinity ATP-binding sites.
Tissue specificity	Fetal lung, heart, liver, gut and kidney. Expressed at higher levels in the fetal brain, retina and spinal cord.
Sequence similarities	Belongs to the ATPase alpha/beta chains family.
Post-translational modifications	The N-terminus is blocked.
Cellular localization	Mitochondrion inner membrane. Peripheral membrane protein.

Images



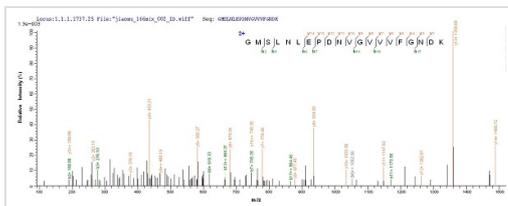
SDS-PAGE - Recombinant Human ATP5A protein (Tagged) (ab235845)

ab235845 analyzed by (Tris-Glycine gel) discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Mass Spectrometry - Recombinant Human ATP5A protein (Tagged) (ab235845)

Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of ab235845 could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) ATP5A.



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