

# Recombinant human ATP5H protein

Catalog Number: ATGP2248

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-161aa

### UniProt No.

O75947

### NCBI Accession No.

NP\_006347

### Alternative Names

ATP synthase subunit d mitochondrial isoform a, ATP synthase subunit d, mitochondrial isoform a, ATPQ

## PRODUCT SPECIFICATION

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### Molecular Weight

20.9 kDa (184aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

ATP synthase subunit d, also known as ATP5H, is a 161 amino acid protein that belongs to the ATPase d subunit family. ATP5H encodes the d subunit of the F<sub>0</sub> complex. ATP5H 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. Localizing to mitochondrial inner membrane, ATP5H exists as two alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 17q25. 1. Recombinant human ATP5H protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MAGRKLA LKTIDWVAF A EIIPQNQKAI ASSLKSWNET LTSRLAALPE  
NPPAIDWAYY KANVAKAGLV DDFEKKFNAL KVPVPEDKYT AQVDAEEKED VKSCAEWVSL SKARIVEYEK EMEKMKNLIP  
FDQMTIEDLN EAFPETKLDK KKYPYWPHQP IENL

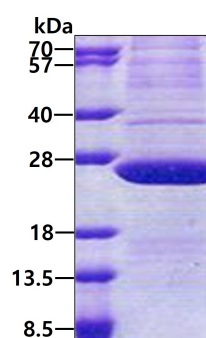
## General References

Noh H S., et al. (2004) Brain Res. 129:80-87.  
Sansanwal P., et al. (2010) J Am Soc Nephrol. 21:272-283.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.