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Recombinant human ATP5H protein

Catalog Number: ATGP2248

PRODUCT INFORMATION

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

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

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 F0 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

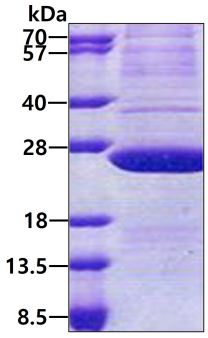
<MGSSHHHHHH SSGLVPRGSH MGS>MAGRKLA LKTIDWVAFA EIIPQNQKAI ASSLKSWNET LTSRLAALPE NPPAIDWAYY KANVAKAGLV DDFEKKFNAL KVPVPEDKYT AQVDAEEKED VKSCAEWVSL SKARIVEYEK EMEKMKNLIP FDQMTIEDLN EAFPETKLDK KKYPYWPHQP IENL

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

SDS-PAGE



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