

Recombinant Human ATP5C1 Protein, His-tagged

Cat. No. ATP5C1-132H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP5C1, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	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. Part of the complex F(1) domain and the central stalk which is part of the complex rotary element. The gamma subunit protrudes into the catalytic domain formed of alpha(3)beta(3). 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.
Form	25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1% Sarkosyl.
Molecular Mass	30.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name ATP5C1 ATP synthase, H⁺ transporting, mitochondrial F1 complex, gamma polypeptide 1 [Homo sapiens]

Official Symbol ATP5C1

Synonyms ATP5C1; ATP synthase, H⁺ transporting, mitochondrial F1 complex, gamma polypeptide 1; ATP5C, ATP5CL1; ATP synthase subunit gamma, mitochondrial; F-ATPase gamma subunit; ATP synthase gamma chain, mitochondrial; mitochondrial ATP synthase, gamma subunit 1; ATP5C; ATP5CL1;

Gene ID 509

mRNA Refseq NM_001001973

Protein Refseq NP_001001973

MIM 108729

UniProt ID P36542

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