

Recombinant Human ATP5D Protein (23-168 aa), His-tagged

Cat. No. ATP5D-1338H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ATP5D Protein (23-168 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Metabolism. Protein Description: Full Length of Mature Protein.

Species Human

Source Yeast

ProteinLength 23-168 aa

Description Mitochondrial membrane ATP synthase (F1F0 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, F1 - containing the extramembraneous catalytic core, and F0 - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP turnover in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F1 domain and of the central stalk which is part of the complex rotary element. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

Form Tris-based buffer, 50% glycerol

Molecular Mass 17.0 kDa

 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

AA Sequence	AEAAAAPAAASGPNQMSFTFASPTQVFFNGANVRQVDVPTLTGAFGILAAHVPTLQ VLRPGLVVVHAEDGTTSKYFVSSGSIAVNADSSVQLLAEEAVTLDMMLDLGAAKANLE KAQAELVGTADEATRAEIQIRIEANEALVKALE
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name	ATP5D ATP synthase, H ⁺ transporting, mitochondrial F1 complex, delta subunit [Homo sapiens]
Official Symbol	ATP5D
Synonyms	ATP5D; F-ATPase delta subunit;
Gene ID	513
mRNA Refseq	NM_001001975
Protein Refseq	NP_001001975

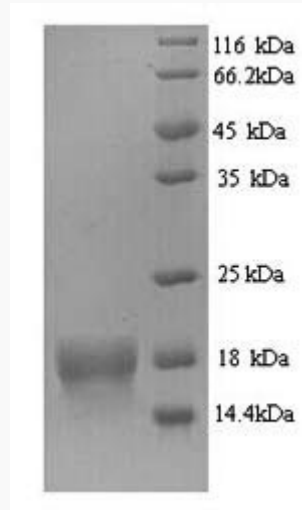
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MIM 603150

UniProt ID P30049



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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