# Recombinant human ATP synthase subunit delta, mitochondrial

Catalog No: #AP71674

Package Size: #AP71674-1 20ug #AP71674-2 100ug #AP71674-3 1mg

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## Description

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|---|---|
| Product Name | Recombinant human ATP synthase subunit delta, mitochondrial |
| Brief Description | Recombinant Protein |
| Host Species | E.coli |
| Purification | Greater than 90% as determined by SDS-PAGE. |
| Immunogen Description | Expression Region:43-161aaSequence Info:Partial |
| Other Names | F-ATPase delta subunit |
| Accession No. | P30049 |
| Uniprot | P30049 |
| GeneID | 513; |
| Calculated MW | 39.4 kDa |
| Tag Info | N-terminal GST-tagged |
| Target Sequence | ASPTQVFFNGANVRQVDVPTLTGAFGILAAHVPTLQVLRPGLVVVHAEDGTTSKYFVSSGSIAVNADSSVQLL AEEAVTLDMLDLGAAKANLEKAQAELVGTADEATRAEIQIRIEANE |
| Formulation | Tris-based buffer50% glycerol |
| Storage | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |

## Background

Mitochondrial mbrane ATP synthase (F1F0 ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the mbrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F1 - containing the extrambraneous catalytic core, and F0 - containing the mbrane 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 elent. Rotation of the central stalk against the surrounding alpha3beta3 subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

## References

Molecular cloning of an import precursor of the delta-subunit of the human mitochondrial ATP synthase complex.Jordan E.M., Breen G.A.M.Biochim. Biophys. Acta 1130:123-126(1992)Research Topic:Metabolism

Note: This product is for in vitro research use only