

# Recombinant human ATP synthase subunit O, mitochondrial

Catalog No: #AP71810

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Package Size: #AP71810-1 20ug #AP71810-2 100ug #AP71810-3 1mg

## Description

|                       |   |
|-----------------------|---|
| Product Name          | Recombinant human ATP synthase subunit O, mitochondrial   |
| Brief Description     | Recombinant Protein   |
| Host Species          | E.coli  |
| Purification          | Greater than 90% as determined by SDS-PAGE.   |
| Immunogen Description | Expression Region:24-213aaSequence Info:Full Length   |
| Other Names           | Oligomycin sensitivity conferral protein ;OSCP  |
| Accession No.         | P48047  |
| Uniprot               | P48047  |
| GeneID                | 539;  |
| Calculated MW         | 47.9 kDa  |
| Tag Info              | N-terminal GST-tagged   |
| Target Sequence       | FAKLVRPPVQVYGIEGRYATALYSAASKQNKLEQVEKELLRVAQILKEPKVAASVLNPNYVKRSIKVKSLNDITAK<br>ERFSPLTTNLLAENGRLSNTQGVSFAFSTMMSVHRGEVPCTVTSASPLEEATLSELKTVLKSFLSQGQVLK<br>LEAKTDPSILGGMIVRIGEKYVDMSVKTKIQKLGAMREIV   |
| 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><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 extramembraneous catalytic core and F0 - containing the mbrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F1 is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Part of the complex F0 domain and the peripheric stalk, which acts as a stator to hold the catalytic alpha3beta3 subcomplex and subunit a,ATP6 static relative to the rotary elents.

## References

"Complete sequencing and characterization of 21,243 full-length human cDNAs."Ota T., Suzuki Y., Nishikawa T., Otsuki T., Sugiyama T., Irie R., Wakamatsu A., Hayashi K., Sato H., Nagai K., Kimura K., Makita H., Sekine M., Obayashi M., Nishi T., Shibahara T., Tanaka T., Ishii S. Sugano S.Nat. Genet. 36:40-45(2004)Research Topic:Metabolism

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Note: This product is for in vitro research use only