ATP synthase subunit a, chloroplastic (atpI), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP19678*

Species
Spinacia oleracea (Spinach)

Full Product Name
Recombinant Spinacia oleracea ATP synthase subunit a, chloroplastic (atpI)

Product Synonym Names
Recombinant ATP synthase subunit a, chloroplastic (atpI); ATP synthase subunit a, chloroplastic; ATP synthase F0 sector subunit a F-ATPase subunit IV

Product Gene Name
atpI recombinant protein

Product Synonym Gene Name
atpI

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
MNVLSYSINP LKGLYAISGV EVGQHFYWQI GGFQIHGQVL ITSWVVIAIL LGSAAIAVRS PQTIPTGGQN FFEYVLEFIR DVSKTQIGEE YRPWVPFIGT MFLFIFVSNW SGALLPWKII QLPHGELAAP TNDINTTVAL ALLTSVAYFY AGLTKKGLGY FGKYIQPTPI LLPINILEDF TKPLSLSFRL FGNILADELV VVVLVSLVPL VVPIPVMFLG LFTSGIQALI FATLAAAYIG ESLEGHH

Sequence Positions
1-247

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
27,087 Da

Storage
Store at -20℃. For extended storage, store at -20 or -80℃.

Protein Family
ATP synthase

NCBI Accession
NP_054920.1

NCBI GI
11497512

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenBank Nucleotide
NC_002202.1

NCBI GeneID
2715580

NCBI Official Full Name
ATP synthase CF0 A subunit

NCBI Official Symbol
atpI

NCBI Protein Information
ATPase IV subunit; ATP synthase CF0 A subunit

UniProt Gene Name
atpI

UniProt Protein Name
ATP synthase subunit a, chloroplastic

UniProt Synonym Protein Names
ATP synthase F0 sector subunit a; F-ATPase subunit IV

UniProt Entry Name
ATPI_SPIOL

UniProt Primary Accession
P06451

UniProt Related Accession
P06451

UniProt Comments
Function: Key component of the proton channel; it plays a direct role in the translocation of protons across the membrane. HAMAP-Rule MF_01393

Subunit structure: F-type ATPases have 2 components, CF1 - the catalytic core - and CF0 - the membrane proton channel. CF1 has five subunits: alpha3, beta3, gamma1, delta1, epsilon1. CF0 has four main subunits: a, b, b' and c.

Subcellular location: Plastid › chloroplast thylakoid membrane; Multi-pass membrane protein HAMAP-Rule MF_01393.

Sequence similarities: Belongs to the ATPase A chain family.

Caution: This has been proposed to be processed from a precursor (Ref.4); however no signal is predicted by signal sequence detection programs.

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