

ADP,ATP carrier protein 1, mitochondrial (AAC1), Recombinant Protein

Cat *RP00124*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* ADP,ATP carrier protein 1, mitochondrial (AAC1)

Product Gene Name

AAC1 recombinant protein

Product Synonym Gene Name

Recombinant ADP,ATP carrier protein 1, mitochondrial (AAC1); ADP,ATP carrier protein 1, mitochondrial; ADP/ATP translocase 1 Adenine nucleotide translocator 1; ANT 1

Purity

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

Sequence

TPGEKGFTNF ALDFLMGGVS AAVSKTAAAP IERVKLLIQN QDEMIKAGRL SEPYKGIGDC FGRTIKDEGF
GSLWRGNTAN VIRYFPTQAL NFAFKDYFKR LFNFKKDRDG YWKWFAGNLA SGGAAGASSL LRVYSLDYAR
TRLANDAKAA KKGGGGRQFD GLVDVYRCTL KTDGIAGLYR GFNISCVGII VYRGLYFGLY DSVKPVLLTG
DLQDSFFASF ALGWVITNGA GLASYPIDTV RRRMMMTSGE AVKYKSSLDA FKQILKNEGA KSLFKGAGAN
ILRAVAGAGV LSGYDKLQLI VFGKKYGSGG A

Sequence Positions

71-381

Chromosome Location

Chromosome: 3; NC_003074.8 (2605442..2607787, complement). Location: chromosome: 3

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

41,476 Da

Storage

Store at -20°C. For extended storage, store at -20 or -80°C.

Protein Family

Leucine-rich repeat-containing protein

NCBI Accession

NP_187470.1

NCBI GI

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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15231937

NCBI GenBank Nucleotide

NM_111692.3

NCBI GeneID

820005

NCBI Official Full Name

ADP,ATP carrier protein 1

NCBI Official Symbol

AAC1

NCBI Official Synonym Symbols

ADP/ATP carrier 1

NCBI Protein Information

ADP,ATP carrier protein 1

NCBI Summary

mitochondrial ADP/ATP carrier

UniProt Gene Name

AAC1

UniProt Synonym Gene Names

ANT1; ANT 1

UniProt Protein Name

ADP,ATP carrier protein 1, mitochondrial

UniProt Synonym Protein Names

ADP/ATP translocase 1; Adenine nucleotide translocator 1

UniProt Entry Name

ADT1_ARATH

UniProt Primary Accession

P31167

UniProt Secondary Accession

Q9M9K2

UniProt Related Accession

AAF26049

UniProt Comments

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Function: Catalyzes the exchange of ADP and ATP across the mitochondrial inner membrane. Subunit structure: Homodimer By similarity. Subcellular location: Mitochondrion inner membrane; Multi-pass membrane protein. Miscellaneous: The transmembrane helices are not perpendicular to the plane of the membrane, but cross the membrane at an angle. At least 2 of the odd-numbered transmembrane helices exhibit a sharp kink, due to the presence of a conserved proline residue By similarity. Sequence similarities: Belongs to the mitochondrial carrier (TC 2.A.29) family. Contains 3 Solcar repeats.

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