Aconitate hydratase 3, mitochondrial (ACO3), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01267*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Aconitate hydratase 3, mitochondrial (ACO3) , partial

Product Gene Name
ACO3 recombinant protein

Product Synonym Gene Name
ACO3

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

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
108,481 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Aconitate hydratase

NCBI Accession
NP_567763.2

NCBI GI
186513977

NCBI GenBank Nucleotide
NM_118831.4

NCBI GeneID
828805

NCBI Official Full Name
aconitase 2

NCBI Official Symbol
ACO2

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NCBI Official Synonym Symbols
aconitase 2; F10M23.310; F10M23_310

NCBI Protein Information
aconitase 2

NCBI Summary
Encodes an aconitase that can catalyze the conversion of citrate to isocitrate through a cis-aconitate intermediate, indicating that it may participate in the TCA cycle and other primary metabolic pathways. The protein is believed to accumulate in the mitochondria and the cytosol. It affects CSD2 (At2g28190 - a superoxide dismutase) transcript levels and may play a role in the response to oxidative stress. One member of the family (ACO1 - At35830) was shown to specifically bind to the 5' UTR of CSD2 in vitro.

UniProt Gene Name
ACO2

UniProt Synonym Gene Names
mACO2

UniProt Protein Name
Aconitate hydratase 2, mitochondrial

UniProt Synonym Protein Names
Citrate hydro-lyase 2

UniProt Primary Accession
Q94A28

UniProt Secondary Accession
Q9SZ36

UniProt Related Accession
Q94A28

UniProt Comments
Catalyzes the isomerization of citrate to isocitrate via cis-aconitate. Contributes to oxidative stress tolerance (PubMed:17013749). Involved in acetate assimilation (PubMed:25061985).

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