Mediator of RNA polymerase II transcription subunit 21 (MED21), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP04823*

Size *0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Mediator of RNA polymerase II transcription subunit 21 (MED21)

Product Gene Name
MED21 recombinant protein

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

Sequence
MDIISQLQEQ VNTIAAITFN AFGTLQRDAP PVQLSPNYPE PPATTTVTDD ATPFPEQPKQ LSAGLVKAAK QFDALVAALP LSEGGEGAQL KRIAELQVEN DLVGQELQKQ LEAAEKELKQ VQELFGQAAD NCLNMKKPE

Sequence Positions
1-139, Full length protein

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
15,041 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
Putative mediator of RNA polymerase II transcription

NCBI Accession
NP_192387.2

NCBI GI
334186358

NCBI GenBank Nucleotide
NM_116716.5

NCBI GeneID
825815

NCBI Official Full Name

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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mediator 21

NCBI Official Symbol
MED21

NCBI Official Synonym Symbols
mediator 21; T4B21.8; T4B21_8

NCBI Protein Information
mediator 21

NCBI Summary
Encodes the med21 subunit of the mediator complex which is involved in transcriptional regulation. MED21 interacts physically with the E3 ligase HUB1 and this interaction may be important in mediation defense responses to fungal pathogens.

UniProt Gene Name
MED21

UniProt Synonym Gene Names
MED21_1; SRB7

UniProt Protein Name
Mediator of RNA polymerase II transcription subunit 21

UniProt Synonym Protein Names
Mediator complex subunit 21; RNAPII complex component SRB7

UniProt Primary Accession
C0LU16

UniProt Secondary Accession
Q84WP9; Q9M0Z8; Q9ZS95

UniProt Related Accession
C0LU16

UniProt Comments
Component of the Mediator complex, a coactivator involved in the regulated transcription of nearly all RNA polymerase II-dependent genes. Mediator functions as a bridge to convey information from gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery. Mediator is recruited to promoters by direct interactions with regulatory proteins and serves as a scaffold for the assembly of a functional preinitiation complex with RNA polymerase II and the general transcription factors. Required for embryo development and defense against necrotrophic fungal pathogens.

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