

Cullin-associated NEDD8-dissociated protein 1 (CAND1), Recombinant Protein

Cat *RP05094*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Cullin-associated NEDD8-dissociated protein 1 (CAND1) , partial

Product Gene Name

CAND1 recombinant protein

Product Synonym Gene Name

CAND1

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

134,622 Da

Storage

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

NCBI Accession

NP_001030954.1

NCBI GI

79316548

NCBI GenBank Nucleotide

NM_001035877.2

NCBI GenID

814786

NCBI Official Full Name

cullin-associated and neddylation dissociated

NCBI Official Symbol

CAND1

NCBI Official Synonym Symbols

ATCAND1; cullin-associated and neddylation dissociated; CULLIN-ASSOCIATED AND NEDDYLATION

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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DISSOCIATED 1; ETA2; HEMIVENATA; HVE; T8K22.14; T8K22_14; TIP120

NCBI Protein Information

cullin-associated and neddylation dissociated

NCBI Summary

Arabidopsis thaliana homolog of human CAND1 (cullin-associated and neddylation-dissociated). Putative similarity to TBP-interacting protein TIP120. Ubiquitously expressed in plant tissues throughout development. T-DNA insertion mutant plants were completely sterile and resistant to sirtinol and auxin, but not to gibberellins or brassinolide. Displayed developmental phenotypes similar to those of *axr1*, namely, short petioles, downwardly curling leaves, shorter inflorescence. Required for SCF function and appears to modulate SCF complex cycling. Physically interacts with CUL1.

UniProt Gene Name

CAND1

UniProt Synonym Gene Names

ETA2; HVE; AtCAND1

UniProt Protein Name

Cullin-associated NEDD8-dissociated protein 1

UniProt Synonym Protein Names

Cullin-associated and neddylation-dissociated protein 1; AtCAND1; Protein ENHANCER OF TIR1-1 AUXIN RESISTANCE 2; Protein HEMIVENATA

UniProt Primary Accession

Q8L5Y6

UniProt Secondary Accession

O64720

UniProt Related Accession

Q8L5Y6

UniProt Comments

Key assembly factor of SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complexes that promotes the exchange of the substrate-recognition F-box subunit in SCF complexes, thereby playing a key role in the cellular repertoire of SCF complexes. Acts as a F-box protein exchange factor. Required for SCF(TIR1) function. Modulates SCF(TIR1) function through its interactions with the CUL1 subunit. Represses photomorphogenesis by promoting HY5 degradation in darkness.

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