CBL-interacting serine/threonine-protein kinase 3 (CIPK3), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05385*

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

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana CBL-interacting serine/threonine-protein kinase 3 (CIPK3)

Product Gene Name
CIPK3 recombinant protein

Product Synonym Gene Name
CIPK3

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

Sequence
MNRRQQVKRR VGKYEVGRTI GEGTFAKVKF ARNSETGEPV ALKILDKEKV LKHKMAEQIR REIATMKLIK HPNVVQLYEV MASKTKIFII LEYVTGGELF DKIVNDGRMK EDEARRYFQQ LIHAVDYCHS RGVYHRDLKP ENLLLDSYGN LKISDFGLSA LSQQVRDDGL LHTSCGTPNY VAPEVLNDRG YDGATADMWS CGVVLYVLLA GYLPFDDSNL MNLYKKISSG EFNCPPWLSL GAMKLITRIL DPNPMTRVTP QEVFEDEWFK KDYKPPVFEE RDDSNMDDID AVFKDSEEHL VTEKREEQPA AINAFEIISM SRGLNLENLF DPEQEFKRET RITLRGGANE IIEKIEEAAK PLGFDVQKKN YKMRLENVKA GRKGNLNVAT EIFQVAPSLH MVQVSKSKGD TLEFHKFYKK LSNSLEQVVW TNNEVKKETA K

Sequence Positions
1-441, 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
43,119 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
CBL-interacting protein kinase

NCBI Accession
NP_850092.1

NCBI GI
30683328

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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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NCBI GenBank Nucleotide
NM_179761.2

NCBI GeneID
817240

NCBI Official Full Name
CBL-interacting protein kinase 3

NCBI Official Symbol
CIPK3

NCBI Official Synonym Symbols
CBL-interacting protein kinase 3; CBL-INTERACTING PROTEIN KINASE 3; SNF1-RELATED PROTEIN KINASE 3.17; SnRK3.17; T20P8.3; T20P8_3

NCBI Protein Information
CBL-interacting protein kinase 3

NCBI Summary
encodes a serine-threonine protein kinase whose expression increases in response to abscisic acid, cold, drought, high salt, and wounding conditions. The gene is expressed in developing seeds and seedlings. Lines carrying a T-DNA insertions have reduced germination efficiency and expression of cold, high-salt, and abscisic acid marker genes are altered, but not drought-response markers.

UniProt Gene Name
CIPK3

UniProt Synonym Gene Names
PKS12; SnRK3.17

UniProt Protein Name
CBL-interacting serine/threonine-protein kinase 3

UniProt Synonym Protein Names
SNF1-related kinase 3.17; SOS2-like protein kinase PKS12

UniProt Primary Accession
Q2V452

UniProt Secondary Accession
Q0WM53; Q2V451; Q8RWU8; Q93VA4; Q9LKC9; Q9ZVD9

UniProt Related Accession
Q2V452

UniProt Comments
Involved in the resistance to some abiotic stresses (e.g. high salt, hyperosmotic stress) in young seedlings, by

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regulating the expression of several stress-inducible genes (cold- and salt-induced genes but not drought-responsive genes). Required for the ABA response during germination. CIPK serine-threonine protein kinases interact with CBL proteins. Binding of a CBL protein to the regulatory NAF domain of CIPK protein lead to the activation of the kinase in a calcium-dependent manner. The CBL9/CIPK3 complex acts in the regulation of abscisic acid response in seed germination.

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