CBL-Interacting Serine/Threonine-Protein Kinase 14 (CIPK14) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	CBL-interacting serine/threonine-protein kinase 14 (CIPK14), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana CBL-interacting serine/threonine-protein kinase 14 (CIPK14)
Product Gene Name	CIPK14 recombinant protein
Product Synonym Gene Name	CIPK14
Sequence	MVDSDPVEFP PENRRGQLFG KYEVGKLVGC GAFAKVYHGR STATGQSVAI KVVSKQRLQK GGLNGNIQRE IAIMHRLRHP SIVRLFEVLA TKSKIFFVME FAKGGELFAK VSKGRFCEDL SRRYFQQLIS AVGYCHSRGI FHRDLKPENL LLDEKLDLKI SDFGLSALTD QIRPDGLLHT LCGTPAYVAP EVLAKKGYDG AKIDIWSCGI ILFVLNAGYL PFNDHNLMVM YRKIYKGEFR IPKWTSPDLR RLLTRLLDTN PQTRITIEEI IHDPWFKQGY DDRMSKFHLE DSDMKLPADE TDSEMGARRM NAFDIISGSP GFNLSGLFGD ARKYDRVERF VSAWTAERVV ERLEEIVSAE NLTVAKKETW GMKIEGQKGN FAMVVEINQL TDELVMIEVR KRQRAAASGR DLWTDTLRPF FVELVHESDQ TDPEPTQVHT TS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	50,298 Da
Sequence Positions	1-442, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9LZW4
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CIPK14 recombinant protein	MBS1480299 is a recombinant protein targeting CIPK14. Also known as Recombinant Arabidopsis thaliana CBL-interacting serine/threonine-protein kinase 14 (CIPK14). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CIPK14 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CIPK14. It may not necessarily be applicable to this product.

NCBI GI #	15241067
NCBI GeneID	831765
NCBI Accession #	NP_195802.1

UniProt Primary Accession #	Q9LZW4
UniProt Related Accession #	Q9LZW4
GenBank Nucleotide #	NM_120260.3
NCBI Official Full Name	serine/threonine protein kinase 1
NCBI Official Symbol	SR1
NCBI Official Synonym Symbols	ATCIPK14; ATSR1; CBL-INTERACTING PROTEIN KINASE 14; CIPK14; PKS24; serine/threonine protein kinase 1; SERINE/THREONINE PROTEIN KINASE 1; SNF1-RELATED PROTEIN KINASE 3.15; SnRK3.15; SOS2-like protein kinase 24; T20L15.90; T20L15_90
UniProt Protein Name	CBL-interacting serine/threonine-protein kinase 14
UniProt Synonym Protein Names	SNF1-related kinase 3.15; SOS2-like protein kinase PKS24; Serine/threonine-protein kinase SR1; AtSR1
Protein Family	CBL-interacting protein kinase
UniProt Gene Name	CIPK14
UniProt Synonym Gene Names	PKS24; SnRK3.15; SR1; AtSR1
NCBI Protein Information	serine/threonine protein kinase 1
NCBI Summary for CIPK14	Encodes a CBL-interacting serine/threonine protein kinase.
UniProt Comments for CIPK14	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 ().
Research Articles on CIPK14	**1.** results demonstrate that CIPK14 regulates the phosphorylation and organellar distributions of WHY1 and pinpoint that CIPK14 may function as a cellular switch between leaf senescence and plastid development for coordinating the intercellular signaling in Arabidopsis
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