Calcineurin B-Like Protein 2 (CBL2) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Calcineurin B-like protein 2 (CBL2), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Calcineurin B-like protein 2 (CBL2)
Product Gene Name	CBL2 recombinant protein
Product Synonym Gene Name	CBL2
Sequence	MSQCVDGIKH LCTSVLGCFD LDLYKQSGGL GDPELLARDT VFSVSEIEAL YELFKKISSA VIDDGLINKE EFQLALFKTN KKESLFADRV FDLFDTKHNG ILGFEEFARA LSVFHPNAPI DDKIHFSFQL YDLKQQGFIE RQEVKQMVVA TLAESGMNLK DTVIEDIIDK TFEEADTKHD GKIDKEEWRS LVLRHPSLLK NMTLQYLKDI TTTFPSFVFH SQVEDT
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	25,809 Da
Sequence Positions	1-226, 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 Q8LAS7
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CBL2 recombinant protein	MBS1348611 is a recombinant protein targeting CBL2. Also known as Recombinant Arabidopsis thaliana Calcineurin B-like protein 2 (CBL2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CBL2 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 CBL2. It may not necessarily be applicable to this product.

NCBI GI #	1063741528
NCBI GeneID	835697
NCBI Accession #	NP_001332655.1
UniProt Primary Accession #	Q8LAS7
UniProt Secondary Accession #	O81446

UniProt Related Accession #	Q8LAS7
GenBank Nucleotide #	NM_001345176.1
NCBI Official Full Name	calcineurin B-like protein 2
NCBI Official Symbol	CBL2
NCBI Official Synonym Symbols	ATCBL2; calcineurin B-like protein 2; MDA7.3; MDA7_3; SCaBP1; SOS3-LIKE CALCIUM BINDING PROTEIN 1
UniProt Protein Name	Calcineurin B-like protein 2
UniProt Synonym Protein Names	SOS3-like calcium-binding protein 1
Protein Family	Calcineurin B-like protein
UniProt Gene Name	CBL2
UniProt Synonym Gene Names	SCABP1
NCBI Protein Information	calcineurin B-like protein 2
NCBI Summary for CBL2	Encodes a member of the Arabidopsis CBL (Calcineurin B-like Calcium Sensor) protein family.
UniProt Comments for CBL2	Acts as a calcium sensor. CBL proteins interact with CIPK serine-threonine protein kinases. Binding of a CBL protein to the regulatory NAF domain of a CIPK protein lead to the activation of the kinase in a calcium-dependent manner. Binds four calcium ions per subunit. Mediates the activation of AKT1 by CIPK proteins (CIPK6, CIPK16, and CIPK23) in response to low potassium conditions and in the context of stomatal movement. Mediates the inactivation of the proton pump AHA2 by CIPK11. Probably involved in regulating signaling responses to abscisic acid.
Research Articles on CBL2	**1.** crucial regulator of vacuolar dynamics and polarized pollen tube growth
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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