Casparian Strip Membrane Protein 2 (LOC100500661) Glycine Max Recombinant Protein

PRODUCT OVERVIEW

Product Name	Casparian strip membrane protein 2 (LOC100500661), Recombinant Protein
Full Product Name	Recombinant Glycine max Casparian strip membrane protein 2
Product Gene Name	LOC100500661 recombinant protein
Product Synonym Names	Recombinant Casparian strip membrane protein 2; Casparian strip membrane protein 2
Sequence	MSTTIEIPES SKVAKGKAVA VVAPARPGGW KKGVAIMDFI LRLGAIAAAL GAAATMGTSD QTLPFFTQFF QFEASYDSFT TFQFFVITMS LVGGYLVLSL PFSIVAIVRP HAVGPRLFLI ILDTAFLTLA TAGGASAAAI VYLAHNGDQD TNWLAICNQF GDFCAQTSAA VVSSFVAVVV LVLLIIMSAL AIGKP
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	20,399 Da
Sequence Positions	1-195
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.
Chromosome Location	Chromosome: 2; NC_016089.1 (41568525..41570435, complement). Location: chromosome: 2
3D Structure	ModBase 3D Structure for C6T2E7
Species	Glycine max (Soybean) (Glycine hispida)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LOC100500661 recombinant protein	MBS1207130 is a recombinant protein targeting LOC100500661. Also known as Recombinant Glycine max Casparian strip membrane protein 2. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of LOC100500661 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 LOC100500661. It may not necessarily be applicable to this product.

NCBI GI #	351723847
NCBI GeneID	100500661
NCBI Accession #	NP_001237549.1
UniProt Primary Accession #	C6T2E7
UniProt Related Accession #	C6T2E7

GenBank Nucleotide #	NM_001250620.2
NCBI Official Full Name	casparian strip membrane protein 2
NCBI Official Symbol	LOC100500661
UniProt Protein Name	Casparian strip membrane protein 2
Protein Family	Casparian strip membrane protein
UniProt Entry Name	CASP2_SOYBN
NCBI Protein Information	casparian strip membrane protein 2
UniProt Comments for LOC100500661	Function: Regulates membrane-cell wall junctions and localized cell wall deposition. Required for establishment of the Casparian strip membrane domain (CSD) and the subsequent formation of Casparian strips, a cell wall modification of the root endodermis that determines an apoplastic barrier between the intraorganismal apoplasm and the extraorganismal apoplasm and prevents lateral diffusion By similarity. Subunit structure: Homodimer and heterodimers By similarity. Subcellular location: Cell membrane; Multi-pass membrane protein By similarity. Note: Very restricted localization following a belt shape within the plasma membrane which coincides with the position of the Casparian strip membrane domain in the root endodermis By similarity. Sequence similarities: Belongs to the Casparian strip membrane proteins (CASP) family.
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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