Casparian strip membrane protein 4 (LOC100500387), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP18391*

Species
Glycine max (Soybean) (Glycine hispida)

Full Product Name
Recombinant Glycine max Casparian strip membrane protein 4

Product Synonym Names
Recombinant Casparian strip membrane protein 4; Casparian strip membrane protein 4

Product Gene Name
LOC100500387 recombinant protein

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

Sequence
MSTTIDVPES NNVAKEKVLL LGARPRPGGW KKGVAIMDFI LRLGAIAAAP GAAATMGTSD QTLPFFTQFF QFEASYDSFT TFQFFVITMA LVAGYLVLSL PFSIVVIIRP HAVGPRLFLI ILDTVFLTLA TASGASAAAI VYLAHNGNQD SNWLAICNQF GDFCAQTSGA VVSSLVSVVI FVLLIVMSAL ALRRN

Sequence Positions
1-195

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
20,810 Da

Storage
Store at -20℃. For extended storage, store at -20 or -80℃.

Protein Family
Casparian strip membrane protein

NCBI Accession
NP_001237259.1

NCBI GI
351722877

NCBI GenBank Nucleotide
NM_001250330.1

NCBI GeneID

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100500387

NCBI Official Full Name
casparian strip membrane protein 4

NCBI Official Symbol
LOC100500387

NCBI Protein Information
casparian strip membrane protein 4

UniProt Protein Name
Casparian strip membrane protein 4

UniProt Entry Name
CASP4_SOYBN

UniProt Primary Accession
C6T1K6

UniProt Related Accession
C6T1K6

UniProt Comments
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.

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