

Casparian strip membrane protein 5 (LOC100527457), Recombinant Protein

Cat *RP18380*

Species

Glycine max (Soybean) (*Glycine hispida*)

Full Product Name

Recombinant Glycine max Casparian strip membrane protein 5

Product Synonym Names

Recombinant Casparian strip membrane protein 5; Casparian strip membrane protein 5

Product Gene Name

LOC100527457 recombinant protein

Purity

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

Sequence

MDSGKEGEAP AATSSPESRR TRSNGKVKAF ADAAPPSATV VSTKATPLPR GGWKKGVAIL DFIIRLGAIG
SALGAAAIMG NSEQILPFFT QFFQFHAQWD DFPMFQFFVF ANGAAGGFLI LSLPFSIVCI VRPYTVGPRL
LLVILDILMM ALVMAAASSA AAVVYLAHNG SQDANWIAIC QQFTDFCQVT SEAVVASFVA AFLICLIV
SSVALKRG

Sequence Positions

1-218

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

23,069 Da

Storage

Store at -20°C. For extended storage, store at -20 or -80°C.

Protein Family

Casparian strip membrane protein

NCBI Accession

NP_001236338.1

NCBI GI

351725825

NCBI GenBank Nucleotide

NM_001249409.2

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Cat *RP18380*

NCBI GeneID

100527457

NCBI Official Full Name

casparian strip membrane protein 5

NCBI Official Symbol

LOC100527457

NCBI Protein Information

casparian strip membrane protein 5

UniProt Protein Name

Casparian strip membrane protein 5

UniProt Entry Name

CASP5_SOYBN

UniProt Primary Accession

C6T4E0

UniProt Related Accession

C6T4E0

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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