

Casparian strip membrane protein Osl_16169 (H0219H12.8, Osl_16169, OSIGBa0097P08.13), Recombinant Protein

Cat RP10839

Species

Oryza sativa subsp. indica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. indica Casparian strip membrane protein Osl_16169 (H0219H12.8, Osl_16169, OSIGBa0097P08.13)

Product Synonym Names

Recombinant Casparian strip membrane protein Osl_16169 (H0219H12.8, Osl_16169, OSIGBa0097P08.13);
Casparian strip membrane protein Osl_16169

Purity

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

Sequence

MEHGEISSKA PLVAPVAAGV NRAVAVVDTF LRFIAIGTI GSAIAMGTTN ETLPFFTQFI QFEAKYSDLP
SFTFFVAANA VVCTYLVLSI PLSIVHILRP RARYSRLFLV FFDTAMLALL TAGASAAAAI VYLAHKGNVR
ANWFSICQQF DSFCERISGS LIGSFAAMVL LVVLITLSAF ALARRH

Sequence Positions

1-186

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

20,099 Da

Storage

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

UniProt Protein Name

Casparian strip membrane protein Osl_16169

UniProt Entry Name

CASP1_ORYSI

UniProt Primary Accession

A2XU91

UniProt Secondary Accession

Q01II9

UniProt Comments

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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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 apoplast and the extraorganismal apoplast 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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