

Casparian strip membrane protein ARALYDRAFT_488377, Recombinant Protein

Cat *RP00466*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

Species

Arabidopsis lyrata subsp. *lyrata* (Lyre-leaved rock-cress)

Full Product Name

Recombinant *Arabidopsis lyrata* subsp. *lyrata* Casparian strip membrane protein ARALYDRAFT_488377 (ARALYDRAFT_488377)

Product Gene Name

ARALYDRAFT_488377 recombinant protein

Purity

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

Sequence

MKSGQAEIVE TSKGIQKSGL MSRRIAILEF ILRIVAFFNT IGSAILMGTT HETLPFFTQF IRFQAEYNDL
PALTFVAVAN AVVSGYLIMS LTAFVHIVK RKTQNTRILL IVLDVAMLGL LSAGASSAAA IVYLAHNGNN
KTNWFAICQQ FNSFCERISG SLIGSFIADV LLLLLLLSA IALSRRH

Sequence Positions

1-187aa; full length protein

Format

Liquid containing glycerol

Host

Cell Free Expression

Molecular Weight

20,511 Da

Storage

Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Protein Family

Casparian strip membrane protein

NCBI Accession

XP_002871659.1

NCBI GI

297807551

NCBI GenBank Nucleotide

XM_002871613.1

NCBI GeneID

9307728

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Casparian strip membrane protein ARALYDRAFT_488377, Recombinant Protein

Cat *RP00466*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

NCBI Official Full Name

integral membrane family protein

NCBI Official Symbol

ARALYDRAFT_488377

NCBI Protein Information

integral membrane family protein

UniProt Gene Name

ARALYDRAFT_488377

UniProt Synonym Gene Names

AICASP5

UniProt Protein Name

Casparian strip membrane protein 5

UniProt Entry Name

CASP5_ARALL

UniProt Primary Accession

D7M7B3

UniProt Comments

Regulates membrane-cell wall junctions and localised 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 .

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