MLO-like protein 7 (MLO7), Recombinant Protein

CD BioSciences

Plant Protein

Cat RP03258

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana MLO-like protein 7 (MLO7), partial

Product Gene Name

MLO7 recombinant protein

Purity

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

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

62,112 Da

Storage

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

Protein Family

MLO-like protein

NCBI Accession #

NP_179335.3

NCBI GI#

42569102

NCBI GenBank Nucleotide

NM 127298.5

NCBI GenelD

816249

NCBI Official Full Name

Seven transmembrane MLO family protein

NCBI Official Symbol

MLO7

NCBI Official Synonym Symbols

ATMLO7; F5J6.19; F5J6 19; MILDEW RESISTANCE LOCUS O 7; NORTIA; NTA

NCBI Protein Information

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967 Tel: 1-631-637-0420 E-mail: info@cd-biosci.com https://www.cd-biosciences.com/plant-protein/

MLO-like protein 7 (MLO7), Recombinant Protein

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Plant Protein

Cat RP03258

Seven transmembrane MLO family protein

NCBI Summary

A member of a large family of seven-transmembrane domain proteins specific to plants, homologs of the barley mildew resistance locus o (MLO) protein. Controls pollen tube reception in synergids. The Arabidopsis genome contains 15 genes encoding MLO proteins, with localization in plasma membrane. Phylogenetic analysis revealed four clades of closely-related AtMLO genes. ATMLO7 belongs to the clade III, with AtMLO5, AtMLO8, AtMLO9, and AtMLO10. The gene is expressed in vegetative organs (RT-PCR experiments)and in pollen grains, as shown by GUS activity patterns. The expression of several phylogenetically closely-related AtMLO genes showed similar or overlapping tissue specificity and analogous responsiveness to external stimuli, suggesting functional redundancy, co-function, or antagonistic function(s).

UniProt Gene Name

MLO7

UniProt Synonym Gene Names

NTA: AtMIo7

UniProt Protein Name

MLO-like protein 7

UniProt Synonym Protein Names

Protein NORTIA

UniProt Primary Accession #

022752

UniProt Secondary Accession #

Q94KB6

UniProt Related Accession #

022752

UniProt Comments

May be involved in modulation of pathogen defense and leaf cell death. Activity seems to be regulated by Ca2+-dependent calmodulin binding and seems not to require heterotrimeric G proteins . Controls pollen tube reception in the female gametophyte synergids.

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