# L-Type Lectin-Domain Containing Receptor Kinase I.9 (LECRK19) Arabidopsis Thaliana Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | L-type lectin-domain containing receptor kinase I.9 (LECRK19), Recombinant Protein |
| **Full Product Name** | Recombinant Arabidopsis thaliana L-type lectin-domain containing receptor kinase I.9 (LECRK19), partial |
| **Product Gene Name** | LECRK19 recombinant protein |
| **Product Synonym Gene Name** | LECRK19 |
| **Sequence** | QQETSFVYE SFLDRQNLYL DKSAIVLPSG LLQLTNASEH QMGHAFHKKP IEFSSSGPLS FSTHFVCALV PKPGFEGGHG IVFVLSPSMD FTHAESTRYL GIFNASTNGS SSYHVLAVEL DTIWNPDFKD IDHNHVGIDV NSPISVAIAS ASYYSDMKGS NESINLLSGN PIQVWVDYEG TLLNVSVAPL EVQKPTRPLL SHPINLTELF PNRSSLFAGF SAATGTAISD QYILWWSFSI DRGSLQRLDI SKLPEVPHPR APHKKVSTL |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 79,483 Da |
| **Sequence Positions** | 22-289 |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q9LSR8 |
| **Species** | Arabidopsis thaliana (Mouse-ear cress) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for LECRK19 recombinant protein** | MBS1375283 is a recombinant protein targeting LECRK19. Also known as Recombinant Arabidopsis thaliana L-type lectin-domain containing receptor kinase I.9 (LECRK19), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of LECRK19 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LECRK19. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 145334855 |
| **NCBI GeneID** | 836152 |
| **NCBI Accession #** | NP_001078773.1 |

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| **UniProt Primary Accession #** | Q9LSR8 |
| **UniProt Secondary Accession #** | Q56XH0; Q93ZR5 |
| **UniProt Related Accession #** | Q9LSR8 |
| **GenBank Nucleotide #** | NM_001085304.1 |
| **NCBI Official Full Name** | Concanavalin A-like lectin protein kinase family protein |
| **NCBI Official Symbol** | LecRK-I.9 |
| **NCBI Official Synonym Symbols** | Does not Respond to Nucleotides 1; DORN1; F15L12.17; F15L12_17; L-type lectin receptor kinase I.9; lectin receptor kinase I.9 |
| **UniProt Protein Name** | L-type lectin-domain containing receptor kinase I.9 |
| **UniProt Synonym Protein Names** | Protein DOES NOT RESPOND TO NUCLEOTIDES 1 |
| **Protein Family** | L-type lectin-domain containing receptor kinase |
| **UniProt Gene Name** | LECRK19 |
| **UniProt Synonym Gene Names** | LecRK79 |
| **NCBI Protein Information** | Concanavalin A-like lectin protein kinase family protein |
| **NCBI Summary for LECRK19** | Lectin Receptor Kinase involved in protein-protein interactions with RGD-containing proteins as potential ligands. Role in cell wall-plasma membrane adhesion. Involved in Phytophthora resistance. |
| **UniProt Comments for LECRK19** | Essential receptor for extracellular ATP (PubMed:24436418, PubMed:25301072). Binds ATP with high affinity through its extracellular legume-lectin like region (PubMed:24436418). Is required for ATP-induced intracellular calcium response, mitogen-activated protein kinase 3 (MPK3) and MPK6 activation and ATP-induced gene expression (PubMed:24436418, PubMed:25301072). May play a variety of roles in stress resistance (PubMed:24436418). May be involved in protein-protein interactions with RGD motif-containing proteins as potential ligands (PubMed:21483488, PubMed:16361528). Plays probably a structural and signaling role at the plant cell surfaces (PubMed:24436418, PubMed:21483488). |
| **Research Articles on LECRK19** | **1.** The role of LecRK-I.9 is discussed with regard to the potential molecular mechanisms linking jasmonic acid signalling to cell wall damage and/or extracellular ATP perception. |
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