LRR receptor-like serine/threonine-protein kinase FLS2 (FLS2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01240*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana LRR receptor-like serine/threonine-protein kinase FLS2 (FLS2) , partial

Product Gene Name
FLS2 recombinant protein

Product Synonym Gene Name
FLS2

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

Sequence
LTCCKKKEKK IENSSESSLP DLDSALKLKR FEPKELEQAT DSFNSANIIG SSSLSTVYKG QLEDGTVIAV KVLNLKEFSA ESDKWFYTEA KTLSQLKHRN LVKILGFAWE SGKTKALVLP FMENGNLEDT IHGSAAPIGS LLEKIDLCVH IASGIDYLHS GYGFPIVHCD LKPANILLDS DRVAHVSDFG TARILGFRED GSTTASTSAF EGTIGYLAPE FAYMRKVTTK ADVFSFGIIM MELMTKQRPT SLNDEDSQDM TLRQLVEKSI GNGRKGMVRV LDMELGDSIV SLKQEEAIED FLKLCLFCTS SRPEDRPDMN EILTHLMKLR GKANSFREDR NEDREV

Sequence Positions
828-1173aa; Cytoplasmic domain

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
128,824 Da

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

Protein Family
LRR receptor-like serine/threonine-protein kinase

NCBI Accession
NP_001330009.1

NCBI GI
1063736481

NCBI GenBank Nucleotide

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/

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NM_001344672.1

NCBI GeneID
834676

NCBI Official Full Name
Leucine-rich receptor-like protein kinase family protein

NCBI Official Symbol
FLS2

NCBI Official Synonym Symbols
FLAGELLIN-SENSITIVE 2; MPL12.13; MPL12.8; MPL12_13

NCBI Protein Information
Leucine-rich receptor-like protein kinase family protein

NCBI Summary
Encodes a leucine-rich repeat serine/threonine protein kinase that is expressed ubiquitously. FLS2 is involved in MAP kinase signalling relay involved in innate immunity. Essential in the perception of flagellin, a potent elicitor of the defense response. FLS2 is directed for degradation by the bacterial ubiquitin ligase AvrPtoB.

UniProt Gene Name
FLS2

UniProt Protein Name
LRR receptor-like serine/threonine-protein kinase FLS2

UniProt Synonym Protein Names
Protein FLAGELLIN-SENSING 2; Protein FLAGELLIN-SENSITIVE 2

UniProt Primary Accession
Q9FL28

UniProt Secondary Accession
Q0WVN3; Q84WF4

UniProt Related Accession
Q9FL28

UniProt Comments
Constitutes the pattern-recognition receptor (PPR) that determines the specific perception of flagellin (flg22), a potent elicitor of the defense response to pathogen-associated molecular patterns (PAMPs). Flagellin-binding to the receptor is the first step to initiate the innate immune MAP kinase signaling cascade (MEKK1, MKK4/MKK5 and MPK3/MPK6), resulting in enhanced resistance against pathogens. Binding to the effector AvrPto1 or to the phosphatase hopD2 from Pseudomonas syringae blocks the downstream plant immune response.

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