# Serine/threonine-protein kinase-like protein ACR4 (ACR4), Recombinant Protein



Cat RP02560

Size 0.5 mg (E-Coli)/ 0.05 mg (Baculovirus)/ 0.5 mg (Yeast)/ 0.05 mg

(Mammalian-Cell)/ 1 mg (F-Coli)/ 0 1 mg (Raculovirus)/ 1 mg

Species (Yeast)/ 0.1 mg (Mammalian-Cell)

Arabidopsis thaliana (Mouse-ear cress)

### **Full Product Name**

Recombinant Arabidopsis thaliana Serine/threonine-protein kinase-like protein ACR4 (ACR4), partial

#### **Product Gene Name**

ACR4 recombinant protein

## **Product Synonym Gene Name**

ACR4

## **Purity**

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

### Sequence

L GSMSSIAISY GEGGSVFCGL KSDGSHLVVC YGSNSAILYG TPGHLQFIGL TGGDGFMCGL LMLSHQPYCW GNSAFIQMGV PQPMTKGAEY LEVSAGDYHL CGLRKPIVGR RKNSNIISSS LVDCWGYNMT RNFVFDKQLH SLSAGSEFNC ALSSKDKSVF CWGDENSSQV ISLIPKEKKF QKIAAGGYHV CGILDGLESR VLCWGKSLEF EEEVTGTSTE EKILDLPPKE PLLAVVGGKF YACGIKRYDH SAVCWGFFVN RSTPAPTGIG FYDLAAGNYF TCGVLTGTSM SPVCWGLGFP ASIPLAVSPG LCIDTPCPPG THELSNQENS PCKFTGSHIC LPCSTSCPPG MYQKSVCTER SDQVCVYNCS SCSSHDCSSN CSSSATSGGK EKGKFWSLQL PIAT

# **Sequence Positions**

30-434

#### **Format**

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

#### Host

E Coli or Yeast or Baculovirus or Mammalian Cell

# **Molecular Weight**

98,181 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**

Serine/threonine-protein kinase-like protein

## **NCBI Accession #**

NP\_191501.1

#### NCBI GI#

15231681

#### 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/

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NCBI GenBank Nucleotide #

NM 115804.4

**NCBI GenelD** 

825111

**NCBI Official Full Name** 

crinkly4

**NCBI Official Symbol** 

CR4

**NCBI Official Synonym Symbols** 

ACR4; crinkly4

**NCBI Protein Information** 

crinkly4

## **NCBI Summary**

Encodes a membrane localized protein with similarity to receptor kinases which is involved in epidermal cell differentiation. Flowers of mutants have disorganized ovule integument growth and abnormal sepal margins. In the roots, mutants initiate more lateral roots but fewer laterals actually emerge due to defects in lateral root formation. Mutants also display disorganized columella. The root phenotypes can be traced to abnormalities in asymmetric divisions in the pericycle and root apex. Conflicting data regarding the role of the kinase domain-which may or may not be required for function. Complementation studies indicate that the C-terminal domain is also not required for signaling function. May be regulated by protein turnover which is mediated by endocytic processes.

### **UniProt Gene Name**

ACR4

**UniProt Synonym Gene Names** 

AtCR4

**UniProt Protein Name** 

Serine/threonine-protein kinase-like protein ACR4

**UniProt Synonym Protein Names** 

Protein CRINKLY 4; AtCR4

UniProt Primary Accession #

Q9LX29

**UniProt Related Accession #** 

Q9LX29

UniProt Comments

Controls formative cell division in meristems, including root tips and lateral root initiation zones of the pericycle, in

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response to CE210 signal. Acts with CE2100 periode as a ligand-receptor pair in a signal transduction pathway, coordinating movement of the root tip and organization of cell divisions in the root meristem. Required during embryogenesis and development, probably for the differentiation of protoderm and epidermal cells. Involved in the regulation of cellular organization during the development of sepal margins and ovule integument outgrowth. Can phosphorylate ALE2.

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