

CLAVATA3/ESR (CLE)-related protein 40 (CLE40), Recombinant Protein

Cat RP04618

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.02 mg

Species (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-*Arabidopsis thaliana* (Mouse-ear cress) Cell)

Full Product Name

Recombinant *Arabidopsis thaliana* CLAVATA3/ESR (CLE)-related protein 40 (CLE40)

Product Gene Name

CLE40 recombinant protein

Product Synonym Gene Name

CLE40

Purity

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

Sequence

HSSSTSFFW LGETQDTKAM KKEKKIDGGT ANEVEERQVP TGSDPLHHKH IPFTP

Sequence Positions

26-80, Full length protein

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

8,856 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

CLAVATA3/ESR (CLE)-related protein

NCBI Accession

NP_196803.1

NCBI GI

15239964

NCBI GenBank Nucleotide

NM_121302.2

NCBI GenelD

831139

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Full Name CLAVATA3/ESR-RELATED 40

NCBI Official Symbol

CLE40

NCBI Official Synonym Symbols

CLAVATA3/ESR-RELATED 40; T24H18_160; T24H18_160

NCBI Protein Information

CLAVATA3/ESR-RELATED 40

NCBI Summary

Member of a large family of putative ligands homologous to the Clavata3 gene. Consists of a single exon.

UniProt Gene Name

CLE40

UniProt Protein Name

CLAVATA3/ESR (CLE)-related protein 40

UniProt Primary Accession

Q9LXU0

UniProt Related Accession

Q9LXU0

UniProt Comments

Extracellular signal peptide secreted by differentiated root cells that regulates root cell fate. Acts with ACR4 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. Promotes cell differentiation in the distal root meristem in a dose-dependent manner, especially the transition from columella stem cells (CSC) daughters into columella cells (CCs). Induces ACR4 expression in root quiescent center (QC). Involved in WUX5 QC-specific expression pattern regulation.

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