

Protein ULTRAPETALA 1 (ULT1), Recombinant Protein

Cat RP01270

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

Species mg (E-Coli)/ 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 Protein ULTRAPETALA 1 (ULT1)

Product Gene Name

ULT1 recombinant protein

Product Synonym Gene Name

ULT1

Purity

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

Sequence

MANNEGEMQC GSMLFKQEEL QEMSGVNVGG DYVEVMCGCT SHRYGDAVAR LRVFPTGDLE ITCECTPGCD
EDKLTAAAFE KHSGREARK WKNNVWVIIG GEKVPLSKTV LLKYINESSK KCSRSNRSQG AKVCHRDEFV
GCNDCGKERR FRLRSRDECR LHHNAMGDPN WKCSDFPYDK ITCEEEEEERG SRKVYRGCTR SPSCKGCTSC
VCFGCELCRF SECTCQTCVD FTSNVKA

Sequence Positions

1-237, 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

26,744 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

Protein

NCBI Accession

NP_567799.1

NCBI GI

18417145

NCBI GenBank Nucleotide

NM_118959.5

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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828934 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

Developmental regulator, ULTRAPETALA

NCBI Official Symbol

ULT1

NCBI Official Synonym Symbols

F26K10.70; F26K10_70; ULT; ULTRAPETALA; ULTRAPETALA1

NCBI Protein Information

Developmental regulator, ULTRAPETALA

NCBI Summary

Encodes a novel Cys-rich protein with a B-box like domain that acts as a negative regulator of meristem cell accumulation in inflorescence and floral meristems as loss-of-function *ult1* mutations cause inflorescence meristem enlargement, the production of extra flowers and floral organs, and a decrease in floral meristem determinacy. Acts opposite to CLF which represses AG, but preventing deposition of CLF repressive methylation marks.

UniProt Gene Name

ULT1

UniProt Protein Name

Protein ULTRAPETALA 1

UniProt Primary Accession

Q8GZA8

UniProt Secondary Accession

Q8L8S8; Q9M0I8

UniProt Related Accession

Q8GZA8

UniProt Comments

Putative transcription factor that acts as a key negative regulator of cell accumulation in shoot and floral meristems. Negatively regulates the size of the WUSCHEL (WUS)-expressing organizing center in inflorescence meristems. May act by down-regulating expression of WUS.

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