Protein FRIGIDA (FRI), Recombinant Protein

Cat RP00334

CD BioSciences
Plant Protein

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Protein FRIGIDA (FRI) , partial

Product Gene Name
FRI recombinant protein

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

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
68,443 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
Protein

NCBI Accession
P0DH90.1

NCBI GI
374110564

NCBI Official Full Name
Protein FRIGIDA

UniProt Gene Name
FRI

UniProt Protein Name
Protein FRIGIDA

UniProt Primary Accession
P0DH90

UniProt Secondary Accession
O65274; Q9FDW0

UniProt Comments

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Required for the regulation of flowering time in the late-flowering phenotype. Involved in the enrichment of a WDR5A-containing COMPASS-like complex at the 'FLOWERING LOCUS C' that trimethylates histone H3 'Lys-4', leading to FLC up-regulation and RNA levels increase (PubMed:19567704). Variants with an early-flowering phenotype (Including cv. Columbia, cv. Landsberg Erecta and cv. Wassilewskija) show loss-of-function mutations of FRI. Able to delay flowering independently of FRL1 activity. Dispensable for the reactivation of FLC in early embryogenesis, but required to maintain high levels of FLC expression in later embryonic and vegetative development. Suppresses the repression of FLC by the autonomous pathway, but has no effect on the expression of the genes involved in this pathway.

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