

Glycine-rich protein 2b (GRP2B), Recombinant Protein

Cat RP05099

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

mg (E-Coli)/ 0.1 mg (Baculovirus)/ 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 Glycine-rich protein 2b (GRP2B)

Product Gene Name

GRP2B recombinant protein

Product Synonym Gene Name

GRP2B

Purity

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

Sequence

MSGGGDVNMS GGDRRKGTVK WFDTQKGFGF ITPSDGGDDL FVHQSSIRSE GFRSLAAEES VEFDVEVDNS
GRPKAIEVSG PDGAPVQGNS GGGGSSGGRG GFGGGGGRGG GRGGGSYGGG YGGRGSGGRG
GGGGDNCFK CGEPGHMARE CSQGGGGYSG GGGGGRYGSG GGGGGGGGGL SCYSCGESGH
FARDCTSGGA R

Sequence Positions

1-201, 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

19,077 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.

NCBI Accession

NP_179702.1

NCBI GI

15226451

NCBI GenBank Nucleotide

NM_127676.3

NCBI GenID

816641

NCBI Official Full Name

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 1

glycine-rich protein 2B
NCBI Official Symbol
GRP2B

NCBI Official Synonym Symbols

ATCSP4; ATGRP2B; COLD SHOCK DOMAIN PROTEIN 4; F26H11.18; F26H11_18; glycine-rich protein 2B;
GLYCINE-RICH PROTEIN 2B

NCBI Protein Information

glycine-rich protein 2B

NCBI Summary

Glycine-rich protein (AtGRP2b). Also named as CSP4 (cold shock domain protein 4) containing a well conserved cold shock domain (CSD) and glycine-rich motifs interspersed by two retroviral-like CCHC zinc fingers. AtCSP4 is expressed in all tissues but accumulates in reproductive tissues and those undergoing cell divisions. Overexpression of AtCSP4 reduces silique length and induces embryo lethality.

UniProt Gene Name

CSP4

UniProt Synonym Gene Names

GRP2B; AtCSP4; AtGRP2b

UniProt Protein Name

Cold shock domain-containing protein 4

UniProt Synonym Protein Names

Glycine-rich protein 2b; AtGRP2b

UniProt Primary Accession

Q38896

UniProt Secondary Accession

Q5BIT2

UniProt Related Accession

Q38896

UniProt Comments

Chaperone that binds to and unwinds RNA and both single-stranded DNA and double-stranded DNA (ssDNA and dsDNA DNA) . Regulates the flowering transition and flower and seed development, particularly at late stages of embryo development, through regulation of gene expression (including MEA, FIS2, AP1, CAL, AG and SHP2).

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