DNA topoisomerase 6 subunit B (TOP6B), Recombinant Protein

CD BioSciences
Plant Protein

Cat RP05428

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana DNA topoisomerase 6 subunit B (TOP6B) , partial

Product Gene Name
TOP6B recombinant protein

Product Synonym Gene Name
TOP6B

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
75,852 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
DNA topoisomerase

NCBI Accession
NP_188714.2

NCBI GI
30685928

NCBI GenBank Nucleotide
NM_112969.3

NCBI GeneID
821626

NCBI Official Full Name
topoisomerase 6 subunit B

NCBI Official Symbol
TOP6B

NCBI Official Synonym Symbols

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ATTOP6B; BIN3; BRASSINOSTEROID INSENSITIVE 3; ELONGATED HYPOCOTYL 6; HARLEQUIN; HLQ; HYP6; RHL3; ROOT HAIRLESS 3; topoisomerase 6 subunit B; topoisomerase 6 subunit B

NCBI Protein Information

topoisomerase 6 subunit B

NCBI Summary

Encodes putative eukaryotic homolog of archaebacterial topoisomerase VI subunit B, TOP6B. Is essential for endoreduplication and is involved in cell expansion and cell proliferation. The hlq (harlequin) dwarf mutant has fewer root hair and leaf trichome. It has abnormal epidermal cell and accumulates callose.

UniProt Gene Name

TOP6B

UniProt Synonym Gene Names

AtTOP6B

UniProt Protein Name

DNA topoisomerase 6 subunit B

UniProt Synonym Protein Names

Protein BRASSINOSTEROID INSENSITIVE 3; Protein ELONGATED HYPOCOTYL 6; Protein ROOT HAIRLESS 3

UniProt Primary Accession

Q9C5V6

UniProt Secondary Accession

Q9LT43

UniProt Related Accession

Q9C5V6

UniProt Comments

Component of the DNA topoisomerase VI involved in chromatin organization and progression of endoreduplication cycles. Relaxes both positive and negative superturns and exhibits a strong decatenase activity. The B subunit binds ATP. Involved in cell-elongation processes.

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