

Ribulose biphosphate carboxylase small chain 3B, chloroplastic (RBCS-3B), Recombinant Protein

Cat *RP15344*

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-Solanum lycopersicum (Tomato) (Lycopersicon esculentum) Cell)

Full Product Name

Recombinant Solanum lycopersicum Ribulose biphosphate carboxylase small chain 3B, chloroplastic (RBCS-3B)

Product Gene Name

RBCS-3B recombinant protein

Purity

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

Sequence

MQVWPPINMK KYETLSYLPD LSDEQLLSEI EYLLKNGWVP CLEFETEHGF VYRENHKSPG YYDGRYWTMW
KLPMFGCTDA TQVLAEVQEA KKAYPQAWVR IIGFDNVRQV QCISFIAYKP EGY

Sequence Positions

58-180, 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

20,213 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

Ribulose biphosphate carboxylase

NCBI Accession

NP_001296139.1

NCBI GI

822606574

NCBI GenBank Nucleotide

NM_001309210.1

NCBI GeneID

101268337

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Full Name
(Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
ribulose biphosphate carboxylase small chain 3B, chloroplastic

NCBI Official Symbol

Rbcs-3B

NCBI Official Synonym Symbols

rbcS3B

NCBI Protein Information

ribulose biphosphate carboxylase small chain 3B, chloroplastic

UniProt Gene Name

RBCS-3B

UniProt Synonym Gene Names

RuBisCO small subunit 3B

UniProt Protein Name

Ribulose biphosphate carboxylase small chain 3B, chloroplastic

UniProt Primary Accession

P05349

UniProt Related Accession

P05349

UniProt Comments

RuBisCO catalyzes two reactions: the carboxylation of D-ribulose 1,5-bisphosphate, the primary event in carbon dioxide fixation, as well as the oxidative fragmentation of the pentose substrate. Both reactions occur simultaneously and in competition at the same active site .

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