

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

Cat *RP13451*

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 *Oryza sativa* subsp. *japonica* (Rice)

Full Product Name

Recombinant *Oryza sativa* subsp. *japonica* Ribulose biphosphate carboxylase small chain A, chloroplastic (RBCS-A)

Product Gene Name

RBCS-A recombinant protein

Purity

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

Sequence

MQVWPIEGIK KFETLSYLPP LTVEDLLKQI EYLLRSKWVP CLEFSKVGfV YRENHRSPGY YDGRYWTMWK
LPMFGCTDAT QVLKELEEAK KAYPDAFVRI IGFDNVRQVQ LISFIAYKPP GCEESGGN

Sequence Positions

48-175, 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

19,631 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

XP_015619408.1

NCBI GI

1002312040

NCBI GenBank Nucleotide

XM_015763922.1

NCBI GenelD

4352014

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Full Name
ribulose biphosphate carboxylase small chain A, chloroplastic

NCBI Official Symbol

LOC4352014

NCBI Official Synonym Symbols

RBCS-A

NCBI Protein Information

ribulose biphosphate carboxylase small chain A, chloroplastic

UniProt Gene Name

RBCS-A

UniProt Synonym Gene Names

RuBisCO small subunit A

UniProt Protein Name

Ribulose biphosphate carboxylase small chain A, chloroplastic

UniProt Primary Accession

P18566

UniProt Secondary Accession

Q0INU2; Q6SYB2

UniProt Related Accession

P18566

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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