

Elongation factor G, chloroplastic (FUSA), Recombinant Protein

Cat *RP18507*

Species

Glycine max (Soybean) (Glycine hispida)

Full Product Name

Recombinant Glycine max Elongation factor G, chloroplastic (FUSA), partial

Product Gene Name

FUSA 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

86,900 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

Elongation factor

NCBI Accession

XP_006600825.1

NCBI GI

571536364

NCBI GenBank Nucleotide

XM_006600762.2

NCBI GeneID

100797377

NCBI Official Symbol

FUSA1

NCBI Official Synonym Symbols

cEF-G

NCBI Protein Information

elongation factor G-1, chloroplastic

UniProt Gene Name

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Elongation factor G, chloroplastic (FUSA), Recombinant Protein

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fusA1

UniProt Synonym Gene Names

cEF-G 1

UniProt Protein Name

Elongation factor G-1, chloroplastic

UniProt Primary Accession

P34811

UniProt Related Accession

P34811

UniProt Comments

Chloroplast-localized elongation factor EF-G involved in protein synthesis in plastids. Catalyzes the GTP-dependent ribosomal translocation step during translation elongation. During this step, the ribosome changes from the pre-translocational (PRE) to the post-translocational (POST) state as the newly formed A-site-bound peptidyl-tRNA and P-site-bound deacylated tRNA move to the P and E sites, respectively. Catalyzes the coordinated movement of the two tRNA molecules, the mRNA and conformational changes in the ribosome.

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