Glutamine synthetase, chloroplastic (GLN2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP10367*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Zea mays (Maize)

Full Product Name
Recombinant Zea mays Glutamine synthetase, chloroplastic (GLN2)

Product Gene Name
GLN2 recombinant protein

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

Sequence
VPRLEQLLNM DTTPYTDKVI AEYIWVGGSG IDIRSKSRTI SKPVEDPSEL PKWNYDGSST GQAPGEDSEV ILYPQAIFKD PFRGGNNVLV ICDTYTPQGE PLPTNKRHRA AQIFSDPKVG EQVPWFGIEQ EYTLLQKDVN WPLGWPVGGF PGPQGPYYCA VGADKSFGRD ISDAHYKACL YAGINISGTN GEVMPGQWEY QVGPSVGIEA GDHIWISRYI LERITEQAGV VLTLDPKPIQ GDWNGAGCHT NYSTKTMRED GGFEEIKRAI LNLSLRHDLH ISAYGEGNER RLTGKHETAS IGTFSWGVAN RGCSIRVGRD TEAKGKGYLE DRRPASNMDP YIVTGLLAET TILWQPSLEA EALAAKKLAL KV

Sequence Positions
52-423, 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
46,017 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
Glutamine synthetase root isozyme

NCBI Accession
NP_001105725.1

NCBI GI
162459403

NCBI GenBank Nucleotide
NM_001112255.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

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NCBI GeneID
542746

NCBI Official Full Name
glutamine synthetase, chloroplastic

NCBI Official Symbol
gln1

NCBI Official Synonym Symbols
gs2; GLN2; GRMZM2G098290; GRMZM5G885867

NCBI Protein Information
glutamine synthetase, chloroplastic

UniProt Gene Name
GLN2

UniProt Protein Name
Glutamine synthetase, chloroplastic

UniProt Synonym Protein Names
GS2; Glutamate--ammonia ligase

UniProt Primary Accession
P25462

UniProt Related Accession
P25462

UniProt Comments
The light-modulated chloroplast enzyme, encoded by a nuclear gene and expressed primarily in leaves, is responsible for the reassimilation of the ammonia generated by photorespiration.

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