

Recombinant Soybean RBCL Protein (3-475 aa), His-SUMO-tagged

Cat. No. RBCL-2018S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Soybean (Glycine max) (Glycine hispida) RBCL Protein (3-475 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Full Length of Mature Protein.
Species	Soybean
Source	E.coli
ProteinLength	3-475 aa
Description	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 in the photorespiration process. Both reactions occur simultaneously and in competition at the same active site.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	68.4 kDa
AA Sequence	PQTETKASVGFKAGVKDYKLTYYTPDYETKDTDILAAFRVTPQPGVPPEEAGAAVAA ESSTGTWTTVWTDGLTSLDRYKGRCYGLEPVAGEENQYIAYVAYPLDLFEEGSVTN MFTSIVGNVFGFKALRALRLEDLRIPTAYIKTFQGPPHGIQVERDKLNKYGRPLLGCTI KPKLGLSAKNYGRAVYECLRGGLDFTKDDENVNSQPFMRWRDRFLFCAEAIFKSQA

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ETGEIKGHYLNATAGTCEEMMKRAVFARELGVPVIMHDYLTGGFTANTSLAHYCRD
 NGLLLHIHRAMHAVIDRQKNHGMHFRVLAKALRLSGGDHVVHAGTVVGKLEGEREITL
 GFVDLLRDDFVEKDRSRGIYFTQDWVSLPGVLPVASGGIHHVHMPALTEIFGDDSVL
 QFGGGTLGHPWGNAPGAVANRVALEACVQARNEGRDLAREGNEIIREASKWSPEL
 AAACEVWKEIKFEFEAMDTL

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name [rbcL RuBisCO large subunit \[Glycine max \(soybean\) \]](#)

Official Symbol [RBCL](#)

Synonyms rbcL; RuBisCO large subunit;

Gene ID [3989271](#)

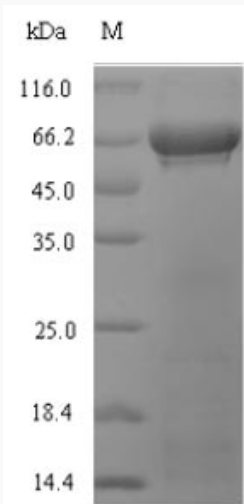
Protein Refseq [YP_538747](#)

UniProt ID [P27066](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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