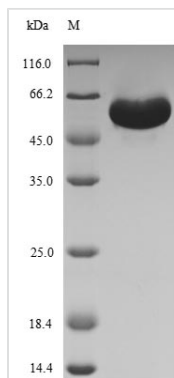




Recombinant Spinacia oleracea Ribulose biphosphate carboxylase/oxygenase activase, chloroplastic

Product Code	CSB-EP319234FKI
Relevance	Activation of RuBisCO (ribulose-1,5-bisphosphate carboxylase/oxygenase; EC 4.1.1.39) involves the ATP-dependent carboxylation of the epsilon-amino group of lysine leading to a carbamate structure.
Abbreviation	Recombinant Spinacia oleracea RuBisCO activase protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P10871
Alias	Short name: RA Short name: RuBisCO activase
Product Type	Recombinant Protein
Immunogen Species	Spinacia oleracea (Spinach)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	AENEEKNTDKWAHLAKDFSDDQLDIRRGKGMVDSLQAPADAGTHVPIQSSF EYESQGLRKYDIDNMLGDFYIAPAFMDKLVVHITKNFLNLPNIKIPLILGVWGGK GQGKSFQCELVFAKLGINPIMMSAGELESGNAGEPAKLIRQRYREAADLIAKG KMCALFINDLEPGAGRMGGTTQYTVNNQMVNATLMNIADNPTNVQLPGMYNK QDNARVPIIVTGNDSTLYAPLIRDGRMEKFYWAPTREDRIGVCTGIFKTDKVP AEHVVKLVDAFPGQSIDFFGALRARVYHDEVKRWVNSVGVDNVGKKLVNSKD GPPVFEQPEMTLQKLMEYGNMLVQEQQENVKRVQLADQYMSSAALGDANKDA IDRGTTFFGKAAQQVSLPVAQGCTDPEAKNYDPTARSDDGSCTYNL
Research Area	Others
Source	E.coli
Protein Names	Recommended name: Ribulose biphosphate carboxylase/oxygenase activase, chloroplastic Short name= RA Short name= RuBisCO activase
Expression Region	59-472aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	61.8kDa
Protein Length	Full Length of Mature Protein
Image	



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

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.