

Ribulose-1,5-bisphosphate carboxylase oxygenase Native Protein

Ribulose-1,5-bisphosphate carboxylase oxygenase

CATALOG # AAA15917	HOST Purified from spinach leaf	APPLICATIONS ELISA, Western Blot
------------------------------	---	--

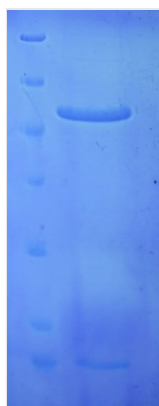
PRODUCT SYNONYMS

Ribulose-1; 5-bisphosphate carboxylase oxygenase; RuBisCO; 5-bisphosphate carboxylase oxygenase native protein

PRODUCT SPECIFICATIONS

Host	Purified from spinach leaf
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Liquid
Applicable Applications for Ribulose-1,5-bisphosphate carboxylase oxygenase native protein	ELISA, WB (Western Blot)
Peptide	Full length native Ribulose-1,5-bisphosphate carboxylase oxygenase
Storage Buffer	20mMPB pH7.4,1mMDTT,0.1mMEDTA,12.5%glycerol
Preparation and Storage	Aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze / thaw cycles

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Ribulose-1,5-bisphosphate carboxylase oxygenase native protein	Ribulose-1,5-bisphosphate carboxylase oxygenase, most commonly known by the shorter name RuBisCO, is an enzyme involved in the Calvin cycle that catalyzes the first major step of carbon fixation, a process by which the atoms of atmospheric carbon dioxide are made available to organisms in the form of energy-rich molecules such as glucose. RuBisCO catalyzes either the carboxylation or the oxygenation of ribulose-1,5-bisphosphate (also known as RuBP) with carbon dioxide or oxygen. RuBisCO is very important in terms of biological impact because it catalyzes the primary chemical reaction by which inorganic carbon permanently enters the biosphere. Many autotrophic bacteria and archaea fix carbon via the reductive acetyl CoA pathway, the 3-hydroxypropionate cycle or the reverse Krebs cycle, but they make up a relatively minor portion of global net primary production. Phosphoenolpyruvate carboxylase PEPC only temporarily fixes carbon. RuBisCO is also the most abundant protein in leaves, and is considered to be the most abundant protein on Earth. It accounts for 50% of soluble leaf protein in C3 plants (20-30% of total leaf nitrogen) and 30% of soluble leaf protein in C4 plants (5-9% of total leaf nitrogen). Given its important role in the biosphere, there are currently efforts to genetically engineer crop plants so as to contain more efficient RuBisCO.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	299782324
NCBI Official Full Name	ribulose 1,5 bisphosphate carboxylase-oxygenase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/native-protein/ribulose-15-bisphosphate-carboxylase-oxygenase/15917>