

Ribulose Bisphosphate Carboxylase/Oxygenase (Rubisco) Assay Kit

Ribulose Bisphosphate Carboxylase/Oxygenase (Rubisco) Colorimetric Assay Kit

CATALOG #
AAA31548

PRODUCT SYNONYMS

Ribulose Bisphosphate Carboxylase/Oxygenase (Rubisco); Ribulose Bisphosphate Carboxylase/Oxygenase (Rubisco) Colorimetric Assay Kit; Rubisco; Bisphosphate; Carboxylase/Oxygenase; Ribulose Bisphosphate Carboxylase/Oxygenase (Rubisco) assay kit

PRODUCT SPECIFICATIONS

Samples	Plant Tissues
Preparation and Storage	Store at -20 degree C and protect from light upon receipt. Kit has a storage time of 6 months form receipt. Shipping Gel pack with blue ice.

ADDITIONAL INFORMATION

Related Product Information for Ribulose Bisphosphate Carboxylase/Oxygenase (Rubisco) assay kit	Principle of the Assay: 1, 5-ribulose biphosphate carboxylase/oxygenase (Rubisco, EC 4.1.1.39) is a key enzyme in plant photosynthesis, which not only controls the fixation of CO ₂ , but also controls the distribution of carbon to the Calvin cycle and the photorespiration cycle. Its activity directly affects the photosynthetic rate. CheKine™ Micro Ribulose Bisphosphate Carboxylase/Oxygenase (Rubisco) Assay Kit provides a simple method for detecting Rubisco activity in plant tissues. The principle is one molecule of ribulose-1,5-diphosphate (RuBP) combines with one molecule of CO ₂ to produce two molecules of 3-phosphoglyceric acid (PGA). Glyceraldehyde-3-phosphate can be produced by PGA through the action of additional 3-phosphoglycerate kinase and glyceraldehyde-3-phosphate dehydrogenase, which is accompanied by NADH oxidation to produce NAD ⁺ . NADH has a characteristic absorption peak at 340 nm, while NAD ⁺ does not. Rubisco activity is calculated by measuring the rate of decrease in light absorption at 340 nm.
Product Categories/Family for Ribulose Bisphosphate Carboxylase/Oxygenase (Rubisco) assay kit	Biochemical Assay Kit; Cell Metabolism; Cytology

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.

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Online datasheet: <https://www.aaabiotech.com/assay-kits/ribulose-bisphosphate-carboxylase-oxygenase-rubisco/31548>