Native Red Fluorescent Protein

Cat. No. R-PE-004R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	R-PE is a phycobiliprotein purified from Febico's proprietary red algae. It is made up of (αβ) 6γ subunit structure. ABSORPTION MAXIMUM: 566 nm EMISSION MAXIMUM: 575 nm EXTINCTION COEFFICIENT: 1.96 X 106 cm^-1 M^-1 QUANTUM YIELD: 0.84
Species	Red algae
Source	Red algae
Description	R-phycoerythrin (R-PE) is an intensely bright phycobiliprotein isolated from red algae that exhibits extremely bright red-orange fluorescence with high quantum yields.
Form	Suspension
Molecular Mass	240 kDa
Purity	A566/A280 ≥ 5.5 A566/A498 ≤1.5
Applications	1. Can be cross linked or conjugated to other molecules to make fluorescent probes. 2. Useful as a fluorescence-based indicator for the presence of cyanobacteria. 3. Can be used for a variety of immunofluorescence applications. 4. A useful fluoroprobe in various electrophoretic procedures.

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Usage	For Research Use Only! Not to be used in humans
Stability	The protein is very stable and can be stored in this buffer for many years.
Storage	Store R-PE in dark at ~ 2-8 centigrade. Do not freeze
Storage Buffer	100 mM Potassium Phosphate buffer, pH 7.0 with 60% Saturated (NH4)2SO4, 1 mM EDTA and 1 mM Sodium Azide.
Reconstitution	Before use, centrifuge the R-PE suspension at 10,000g for 10 min at 4 centigrade. Discard the supernatant and resuspend the pellet (R-PE) into the desired buffer. R-PE is stored in a salt solution and it must be extensively dialyzed or desalted in columns prior to use, to remove any remaining ammonium sulphate.
Handling	Centrifuge the vial prior to opening.

GENE INFORMATION

Synonyms	RFP, Red Fluorescent Protein, R-PE, R-Phycoerythrin

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