

Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein
RFP, Red Fluorescent Protein, R-PE, R-Phycoerythrin
Catalog # PBV10535r**Specification**

Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Product infoCalculated MW **240 kDa KDa****Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Additional Info**Gene Symbol **R-PE****Other Names**

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

Gene Source

Red algae

Source

Febico's proprietary red algae

Assay&Purity

Absorbance; A566/A280 \geq 5.5

Assay2&Purity2

Absorbance; A566/A498 \leq 1.5

Recombinant

No**Target/Specificity**

R-PE

Application Notes

Before use, centrifuge the R-PE suspension at 10,000g for 10 min at 4C. 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 (Can use BioVision's Dialyzer tubes) or desalted in columns prior to use, to remove any remaining ammonium sulphate.

Format

Suspension

Storage

2-8°C ; R-PE is supplied in 100 mM Potassium Phosphate buffer, pH 7.0 with 60% Saturated (NH₄)₂SO₄, 1 mM EDTA and 1 mM Sodium Azide.

Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Images

Red Fluorescent Protein - R-PE (R-Phycoerythrin) recombinant protein - Background

R-phycoerythrin (R-PE) is an intensely bright phycobiliprotein isolated from red algae that exhibits extremely bright red-orange fluorescence with high quantum yields. The broad excitation spectrum provides the advantage for multi-color immunofluorescent staining or cell sorting. R-PE consists of a, b and g subunits and is present as (ab) 6g. R-PE and the closely related BPE are the most intensely fluorescent phycobiliproteins having orange fluorescence. R-PE is a large molecule used for fluorescence-based detection, primarily in flow cytometry, microarray assays, ELISAs, and other applications that require high sensitivity but not photostability. In practical applications, the sensitivity of R-PE conjugates is usually 5 to 10 times greater than those of the corresponding fluorescein conjugates.