

# PE

**Cat. No. GTX30952-pro**
**Package**  
1 mg

## PRODUCT

### Summary

Phycoerythrin (RPE) is a 240 kDa protein from the light-harvesting phycobilliprotein family, present in cyanobacteria, red algae and cryptomonads. Like all phycobilliprotein, phycoerythrin is composed of a protein part, organised in a hexameric structure of alpha and beta chains, covalently binding chromophores called phycobilins. In the phycoerythrin family, the phycobilins are: phycoerythrobilin, the typical phycoerythrin acceptor chromophore, and sometimes phycourobilin (marine organisms). Phycoerythrins are the phycobilliprotein which bind the highest number of phycobilins (up to six per alpha-beta subunit dimer). Subunit structure:  $(\alpha\beta)_6\gamma$ . RPE purified from *Poryhyra tenera*; Absorption Maximum: 565 nm  $\pm$  2 nm (2 smaller peaks are observed at 490 and 545 nm. Emission Maximum: 580 nm. Purity: Absorbance ratio: 565/280 >5.0. Absorbance: Absorbance 1% 565 nm=82.

## PROPERTIES

|                          |                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>              | Liquid                                                                                                                                            |
| <b>Buffer</b>            | 10mM Phosphate, 150mM NaCl buffer                                                                                                                 |
| <b>Preservative</b>      | 0.05% Sodium azide                                                                                                                                |
| <b>Storage</b>           | Store as concentrated solution. Centrifuge briefly prior to opening vial. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |
| <b>Concentration</b>     | 1 mg/ml (Please refer to the vial label for the specific concentration.)                                                                          |
| <b>Expression System</b> | <i>Poryhyra tenera</i>                                                                                                                            |
| <b>Conjugation</b>       | Unconjugated                                                                                                                                      |
| <b>Note</b>              | For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. |



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