Catalog Number: AS-82001

Description: B-PE (B-Phycoerythrin), a fluorescent protein, belongs to the phycobiliprotein family of highly soluble and fluorescent proteins derived from cyanobacteria and eukaryotic algae. B-PE is made of α, β and γ subunits and is present as \((\alpha\beta)_{6}\gamma\). The absorption bands peak at 545 nm \((\varepsilon_M = 2.41 \times 10^6 \text{ M}^{-1} \text{cm}^{-1})\) and 563 \((\varepsilon_M = 2.33 \times 10^6 \text{ M}^{-1} \text{cm}^{-1})\). B-PE and the closely related R-PE are the most intensely fluorescent phycobiliproteins. They are significantly brighter and more photostable than conventional organic fluorophores. B-PE labeled streptavidins, primary and secondary antibodies have been widely used in applications such as flow cytometry and multi-color immunofluorescent staining.

B-PE is supplied in sodium phosphate buffer, pH 7.0 with ammonium sulfate. The protein is very stable and can be stored for years in this buffer.

Before use, centrifuge the B-PE suspension at 10,000g for 10 min at 4°C. Discard the supernatant. Resuspend the pellet (B-PE) into the desired buffer. Desalt the sample using either Sephadex G-25 or dialysis. Store B-PE at 4°C and keep away from light.

References