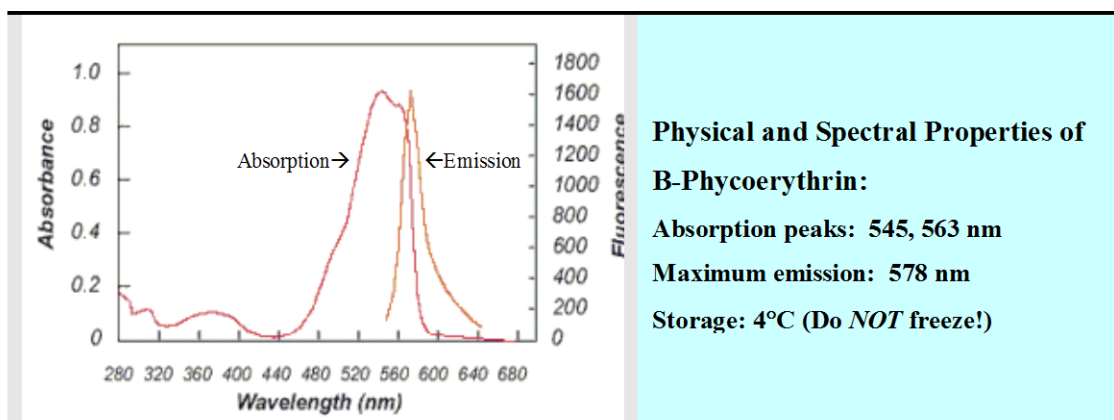


## SMCC Activated B-Phycoerythrin



**Catalog Number:** AS- 72109

**Concentration:** 1mg/mL

**Size:** 1 mg

**Description:** B-PE (B-Phycoerythrin),<sup>1</sup> 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  $\alpha$ ,  $\beta$  and  $\gamma$  subunits and is present as  $(\alpha\beta)_6\gamma$ . The absorption bands have peaks at 545 nm ( $\epsilon_M = 2.41 \times 10^6 \text{ M}^{-1}\text{cm}^{-1}$ ) and 563 ( $\epsilon_M = 2.33 \times 10^6 \text{ M}^{-1}\text{cm}^{-1}$ ).<sup>1,2</sup> 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.<sup>3</sup> B-PE labeled streptavidins, primary and secondary antibodies have been widely used in applications such as flow cytometry and multi-color immunofluorescent staining.

SMCC Activated B-PE, with a maleimide group introduced, allows it to be conveniently conjugated to the thiol groups of proteins, without the need for additional activation.

SMCC Activated B-PE is supplied in MES buffer, pH 6.0 with EDTA and preservative. It is stable for ~12 months at 4°C if kept from light.

### References

1. Glazer, AN. and CS. Hixson *J. Biol. Chem.* **252**, 32 (1977).
2. Lundell, DJ. et al. *J. Biol. Chem.* **259**, 5472 (1984).
3. Oi, VT. et al. *J. Cell Biol.* **93**, 981 (1982).