

B-Phycoerythrin Protein

Cat. No. BPE-316 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	B-Phycoerythrin Protein, activated.
Description	<p>B-Phycoerythrin, activated was treated with a 15-fold molar excess of 2-Iminothiolane.</p> <p>Ratio SH-group/pigment: ≥ 3 (~5; Ellman's reagent titration);</p> <p>Fluorescence: Emmax 576 nm (exc.: 542 nm in 0.1 M phosphate pH 7.2);</p>
Form	1 vial contains 1 mg pigment in 0.2 mL buffer (0.1 M phosphate, 5 mM EDTA)
Applications	<p>Suitable for fluorescence.</p> <p>Activated B-Phycoerythrin is a reagent used to create B-Phycoerythrin type phycobiliproteins that may be analyzed via flow cytometry and immunofluorescence detection techniques.</p>
Notes	<p>Example for a labeling protocol:</p> <p>1 mL purified at ~1.5 mg/mL in PBS (pH 7.5). Antibody must be fairly pure – i.e. purify on protein A or G column before conjugating. Add 20 μSMCC, 4-(N-Maleimidomethyl) cyclohexanecarboxylic acid N-hydroxysuccinimide ester and incubate for 1 hour.</p> <p>Conjugation with activated phycobiliprotein:</p> <p>Immediately combine your activated phycobiliprotein with SMCC-Antibody.</p> <p>NOTE: For activated PE start with a 1:1 molar ratio. For activated APC, start with a 2:1 molar ratio.</p> <p>Incubate the mixture for 1-2 hours at room temperature. Block further reaction by adding 10:1 of NEM Solution(N-Ethylmaleimide) per mL of reaction (optional step). Incuba</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



te the mixture for 20 minutes at room temperature.

Use a desalting column to exchange the conjugate into the desired storage buffer. To optimize the yield and size distribution of the conjugate, alter the amount of activated-Phycobiliprotein to your protein.

Storage

Store activated B-Phycoerythrin in the dark at 0 until -20centigrade.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA