Recombinant Blue Fluorescent Protein, His-tagged

Cat. No. BFP-001E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant Blue Fluorescent Protein (BFP) is expressed and purified from transformed E. coli using a method that ensures high purity and maximal BFP fluorescence. The protein is a 29 kDa monomer with 259 amino acids, pI: 6.17. Ex.= 308-383 nm; Em.= 440-447 nm. The protein is engineered with 6xHis-tag on the N-terminal, which can be used for detection with anti-His-Tag antibody, or protein removal by using Ni++ beads.
Species	E.coli
Source	E.coli
Description	Blue fluorescent protein (BFP) is a mutant of green fluorescent protein (GFP), where the chromophore has been modified to shift the emitted fluorescence into the blue spectral region.
Form	Lyophilized (Freeze Dried)
Molecular Mass	29.0 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMVSKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLTLKFICTTGKLPVPWPTLVTTLSHGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNFNSHNVYIMADKQKNGIKANFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDSHYLSTQSALSKDPNEKRDHMVLLEFVTAAGITLGMDELYK

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

Endotoxin	<0.1 ng/μg
Purity	≥97%
Applications	The protein is suitable as a control reagent for BFP expression studies or as a labeling reagent. Applications include: Use as standards for SDS-PAGE, Western blot analysis of BFP transfected cells, label other proteins, calibration of fluorometers and flow cytometers, fluorescence microscope, or microinjection of BFP into cells and tissues, etc. The recombinant BFP is ideal for fusion tag applications and is perfect for triple labeling with EGFP, RFP, YFP, or any other dyes. The 6 × His-Tag on the N-terminal can be used in Western blot detection with 6 × His-tag antibodies. The 6 × His-tag can also be used in removal or purification of the BFP.
Usage	For Research Use Only! Not to be used in humans
Storage	At -20 centigrade. At -80 centigrade for long-term storage.
Reconstitution	Reconstitute with dH_2O to 1 mg/mL
Handling	Centrifuge the vial prior to opening.

GENE INFORMATION

Synonyms	BFP, Blue Fluorescent Protein

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