

## Recombinant Blue Fluorescent Protein (BFP)

<b>CATALOG #:</b>	4994-100	100 µg
	4994-1000	1 mg
<b>LOT #:</b>	_____	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	≥97% by SDS-PAGE and HPLC	
<b>ENDOTOXIN:</b>	≤0.1 ng/µg	
<b>FORM:</b>	Freeze dried	
<b>RECONSTITUTION:</b>	Reconstitute with dH <sub>2</sub> O to 1 mg/ml	
<b>STORAGE:</b>	-80°C for long-term storage	

### DESCRIPTION:

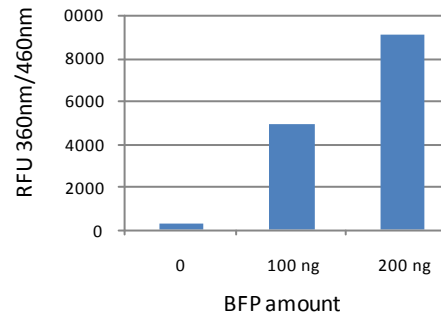
The recombinant Blue Fluorescent Protein (BFP) is expressed and purified from transformed *E. coli* using a method that ensures high purity and maximal BFP fluorescence. The protein is a 29 kDa monomer with 259 amino acids, pI: 6.17. Ex.= 308-383 nm; Em.= 440-447 nm. The protein is engineered with 6xHis-tag on the N-terminal, which can be used for detection with anti-His-Tag antibody, or protein removal by using Ni<sup>++</sup> beads.

### BFP PROTEIN SEQUENCE:

MGSSHHHHHHSSGLVPRGSHMVSKEELFTGVVPIVELDGDVNGHKFSVSGEGEGDATY  
 GKLTCLKFICTTGKLPVWPTLVTTLSHGVCFSRYPDHMKQHDFFKSAMPEGYVQERTIF  
 FKDDGNYKTRAEVKFEGDTLVNRIELKGIQFKEDGNILGHKLEYNFSHNIVYIMADKQKN  
 GIKANFKIRHNIEDGSVQLADHYQQNTPIGDGPVLLPDSHYLSTQSALSKEPNEKRDHVM  
 LLEFVTAAGITLGMDELYK

### 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 (Cat. # 4999-100), RFP (Cat. # 4997-100), YFP (Cat. # 4998-100), or any other dyes. The 6xHis-Tag on the N-terminal can be used in Western blot detection with 6xHis-tag antibodies. The 6xHis-tag can also be used in removal or purification of the BFP.



### RELATED PRODUCTS:

- Apoptosis Detection Kits & Reagents
  - Annexin V Kits & Bulk Reagents
  - Caspase Assay Kits & Reagents
  - Mitochondrial Apoptosis Kits & Reagents
  - Nuclear Apoptosis Kits & Reagents
- Cell Fractionation System
  - Mitochondria/Cytosol Fractionation Kit
  - Nuclear/Cytosol Fractionation Kit
  - Membrane Protein Extraction Kit
  - Cytosol/Particulate Rapid Separation Kit
  - Mammalian Cell Extraction Kit
  - FractionPREP Fractionation System
- Cell Proliferation & Senescence
  - Quick Cell Proliferation Assay Kit
  - Senescence Detection Kit
  - High Throughput Apoptosis/Cell Viability Assay Kits
  - LDH-Cytotoxicity Assay Kit
  - Bioluminescence Cytotoxicity Assay Kit
  - Live/Dead Cell Staining Kit
- Signal Transduction
  - cAMP & cGMP Assay Kits
  - Akt & JNK Activity Assay Kits
  - Beta-Secretase Activity Assay Kit
- Metabolism Assays
  - Ascorbic Acid, Lactate, Pyruvate, Uric Acid, Ethanol Assay Kits
  - Glucose, Sucrose, Galactose, Lactose, Maltose Assay Kits
  - NAD/NADH, NADP/NADPH, ADP/ATP Assay Kits
  - Glycogen, Sarcosine, Fatty acid, ammonia, Urea assay kits
- Recombinant Proteins, Growth Factors, Cytokines and Antibodies

**FOR RESEARCH USE ONLY! Not to be used on humans.**