

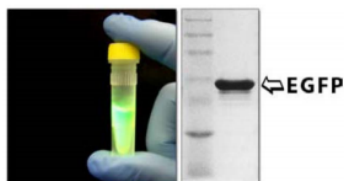
## Enhanced Green Fluorescent Protein (EGFP)

<b>CATALOG #:</b>	4999-100	100 µg
	4999-1000	1 mg
<b>CONCENTRATION:</b>	1 mg/ml in PBS	
<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>	Ready to use liquid in PBS with no additives	
<b>STORAGE:</b>	-80°C for long-term storage	

**DESCRIPTION:**  
The recombinant EGFP is expressed and purified from transformed *E. coli* using a method that ensures high purity and maximal GFP fluorescence. Endotoxin has been removed, so the protein is suitable for in vivo injection or cell culture applications. The recombinant EGFP is a 29 kDa monomer with 265 amino acids (Gene Bank Accession no. U57607) tagged with 6XHis on both N- and C-terminus. Therefore, the EGFP can be detected by both His-tag antibody (Cat.# 3998-100) and GFP antibody (Cat.# 3999-100) on Western Blot analysis. The excitation and emission spectra for the recombinant EGFP is identical to GFP purified from *Aequorea Victoria* (Chalfie et al, 1994), with Ex/Em = 488/507 nm and  $\epsilon = 55,000 \text{ M}^{-1} \text{ cm}^{-1}$ .

**APPLICATIONS:**

The protein is suitable as control reagent for GFP expression studies. Applications include: Use as standard for SDS-PAGE, Western blot analysis, calibration of fluorometers, flow cytometers, and fluorescence microscope, as well as microinjection of EGFP into cells and tissues, etc. The recombinant EGFP can also be conjugated to other proteins. GFP antibody is also available which recognizes the recombinant EGFP protein (Cat.# 3999-100).



**FOR RESEARCH USE ONLY! Not to be used in human subjects!**

**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
  - Mitochondrial/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
- Cell Damage & Repair
  - HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
  - HAT Colorimetric Assay Kit & Reagents
  - DNA Damage Quantification Kit
  - Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits
- Signal Transduction
  - cAMP & cGMP Assay Kits
  - Akt & JNK Activity Assay Kits
  - Beta-Secretase Activity Assay Kit
- Adipocyte & Lipid Transfer
  - Recombinant Adiponectin, Survivin, & Leptin
  - CETP Activity Assay & Drug Discovery Kits
  - Total Cholesterol Quantification Kit
- Molecular Biology & Reporter Assays
  - siRNA Vectors
  - Cloning Insert Quick Screening Kit
  - Mitochondrial & Genomic DNA Isolation Kits
  - 5 Minutes DNA Ligation Kit
  - 20 Minutes Gel Staining/Destaining Kit
- Growth Factors and Cytokines

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