

Enhanced Green Fluorescent Protein (EGFP)

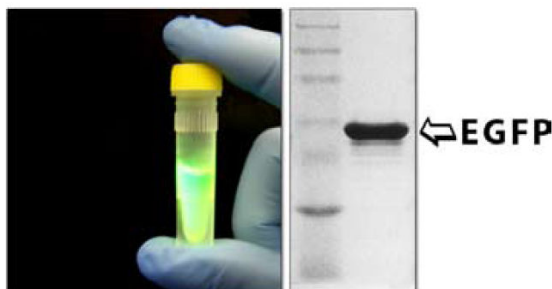
CATALOG #:	4999-100	100 µg
	4999-1000	1 mg
	4999-5000	5 mg
SOURCE:	<i>E. coli</i>	
PURITY:	≥97% by SDS-PAGE and HPLC	
ENDOTOXIN:	≤0.1 ng/µg	
MOLECULAR WEIGHT:	32.7 kDa	
FORM:	Lyophilized with no additives	
RECONSTITUTION:	Reconstitute to 1 mg/ml with PBS or other appropriate buffer.	
STORAGE:	-80°C for 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 (Gene Bank Accession no. U57607) is a 32.7 kDa monomer with 293 amino acids 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 ($\epsilon_{489 \text{ nm}} = 55,000 \text{ M}^{-1} \text{ Cm}^{-1}$; $\epsilon_{280 \text{ nm}} = 21980 \text{ M}^{-1} \text{ Cm}^{-1}$).

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).



RELATED PRODUCTS:

- Fluorescent proteins and antibodies
 - Recombinant EGFP, BFP, CFP, dsRed, mCherry and YFP Proteins
 - Fluorescent Protein Antibodies
 - GFP & RFP Expression Vectors
 - GFP Quantification Kit
 - Secondary Antibodies
 - Loading Control Antibodies
 - Western Blot Substrate Kit
- GFP Quantification Kit
- Apoptosis Detection Kits & Reagents
- Cell Fractionation Kits
- Cell Proliferation & Cytotoxicity Kits
- Metabolism Assay Kits
- Cell Damage & Oxidative Stress Assays
- Cholesterol & Obesity Assay Kits
- Protein A, G, L & Sepharose Beads
- Protein Extraction & Purification Products
- Signal Transduction Assay Kits & Reagents
- Molecular biology Kits & Enzymes
- Growth Factors & Cytokines
- Antibodies
- Biochemical and Inhibitors

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