

Enhanced Green Fluorescent Protein (EGFP)

CATALOG #: 4999-100 100 µg
 4999-1000 1 mg
 4999-5000 5 mg

SOURCE: *E. coli*

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.

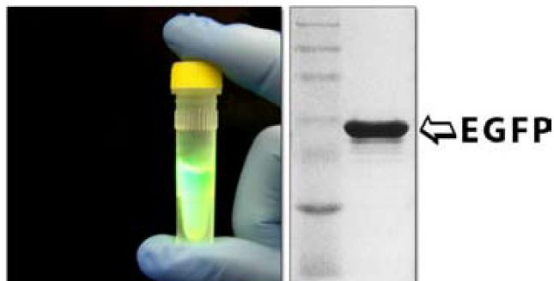
STORAGE: -80 °C for long-term storage

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 (UniProt Accession No. P42212) 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. No. 3998-100**) and GFP antibody (**Cat. No. 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. No. 3999-100**).



RELATED PRODUCTS:

- Fluorescent Protein Antibody Set (Cat. No. K817)
- Fluorescent Protein Set (Cat. No. K816)
- Blue Fluorescent Protein (BFP) (Cat. No. 4994)
- Cyan Fluorescent Protein (Cat. No. 4996)
- Yellow Fluorescent Protein (Cat. No. 4998)
- mCherry Fluorescent Protein (Cat. No. 4993)

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