

Recombinant Enhanced Green Fluorescent Protein, His-tagged

Cat. No. EGFP-003E **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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 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 and GFP antibody on Western Blot analysis. The excitation and emission spectra for the recombinant EGFP is identical to GFP purified from Aequorea Victoria, with Ex/Em = 488/507 nm ($\epsilon_{489 \text{ nm}} = 55,000 \text{ M}^{-1} \text{ cm}^{-1}$; $\epsilon_{280 \text{ nm}} = 21980 \text{ M}^{-1} \text{ cm}^{-1}$).

Fluorescent protein ideal for subcellular labeling/visualization.

Species

E.coli

Source

E.coli

Description

Green Fluorescent Protein (GFP) is a versatile biological marker for monitoring physiological processes, visualizing protein localization, and detecting transgenic expression in vivo.

Form

Lyophilized (Freeze Dried)

Molecular Mass

32.7 kDa

Endotoxin

<0.1 ng/μg

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Purity	≥97%
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.
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 PBS to 1 mg/mL
Handling	Centrifuge the vial prior to opening.
GENE INFORMATION	
Synonyms	E-GFP, Enhanced Green Fluorescent Protein

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