

Recombinant Enhanced Green Fluorescent Protein His

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|---------------------------------|---|------------------|------------------|
| Catalog No. | CRE131B CRE131C | Quantity: | 100 µg 1.0 mg |
| Description: | <p>Recombinant EGFP is expressed and purified from transformed <i>E. coli</i> using a method that ensures high purity and maximal GFP fluorescence. Endotoxin has been removed, so the protein is suitable for <i>in vivo</i> injection or cell culture applications. The recombinant eGFP is a monomer with 293 aa tagged with 6x His on both N- and C-terminus. Therefore, the EGFP can be detected by both His-tag antibody and GFP antibody on Western Blot. Excitation and emission spectra for the recombinant eGFP is identical to GFP purified from <i>Aequorea victoria</i>, with Ex/Em = 488/507 nm ($\epsilon_{489\text{ nm}} = 55,000\text{ M}^{-1}\text{ Cm}^{-1}$; $\epsilon_{280\text{ nm}} = 21,980\text{ M}^{-1}\text{ Cm}^{-1}$).</p> | | |
| Source: | <i>E. coli</i> | | |
| Molecular Weight: | 32.7 kDa | | |
| Formulation: | Lyophilized with no additives. | | |
| Purity: | ≥97% by SDS PAGE and HPLC | | |
| Endotoxin Level: | ≤0.1 ng/µg | | |
| Reconstitution: | Centrifuge vial prior to opening. Reconstitute with PBS or appropriate buffer to a concentration of 1 mg/mL. | | |
| Applications: | <p>Control reagent for GFP expression studies Use as standard on SDS-PAGE Western blot Calibration of fluorometers, flow cytometers, and fluorescence microscopes Microinjection into cells and tissues Can be conjugated to other proteins</p> | | |
| Storage & Stability: | Store in working aliquots at -80 °C. Avoid repeated freeze-thaw cycles. | | |



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

