

Recombinant eGFP Protein

Cat. No. 1O2401

DESCRIPTION

Expression system	<i>E. coli</i>
Amino acid sequence	Met; Val; Ser2-Lys238, Accession # P42212, Phe64Leu, Ser65Thr, His231Leu
Molecular mass	Recombinant eGFP Protein, a non-glycosylated monomer containing 239 amino acid residues, has a predicted molecular mass of approximately 26.9 kDa.

SPECIFICATIONS

Purity	> 95% by SDS-PAGE gel and HPLC analyses.
Endotoxin	Less than 1 EU/μg of reGFP as determined by LAL test.
Formulation	Lyophilized from a 0.22 μm filtered solution in PBS. See CoA for details.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Reconstitute in sterile distilled water to a concentration of 0.1-1.0 mg/mL. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING & STORAGE

Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Please use a manual defrost freezer and avoid repeated freeze-thaw cycles. ● Lyophilized protein should be stored at ≤ -20°C, stable for 12 months after receipt. ● Reconstituted protein solution can be stored at 2-8°C for 1 month. ● Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.

BACKGROUND

Enhanced Green Fluorescent Protein (eGFP) is an engineered variant of wild-type GFP originally derived from *Aequorea victoria*. Compared with native GFP, eGFP contains two key amino acid mutations (F64L and S65T), which significantly improve folding efficiency, fluorescence intensity and photostability, and accelerate chromophore maturation at 37 °C. It exhibits strong green fluorescence with excitation at ~488 nm and emission at ~509 nm. As a widely used reporter and marker protein, recombinant eGFP is commonly expressed in *E. coli* with high purity. It can be applied in protein localization, molecular interaction studies, fluorescence calibration, positive control for expression system validation, and quality control of fluorescence-related detection platforms.

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