

EGFP Recombinant Protein

Recombinant EGFP

CATALOG #
AAA11426

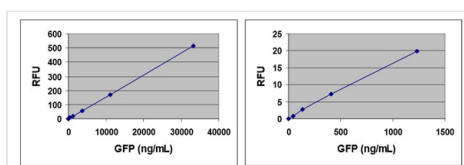
PRODUCT SYNONYMS

EGFP; Recombinant EGFP; EGFP recombinant protein

PRODUCT SPECIFICATIONS

Purity	Expressed and purified from E. coli as a recombinant protein, greater than 90% by SDS-PAGE (Figure 1). rEGFP has an approximate MW of 29 kDa, containing a 6xHis-tag at the C-terminus, and an excitation/emission spectra of 488/507 nm. Fluorescence activity was determined by GFP Fluorometric Quantitation Kit.
Quantity	100 ug/vial at 1.0 mg/mL in 1X PBS
Preparation and Storage	Store at -80°C; avoid freeze/thaw. Shelf Life: 1 year from date of receipt under proper storage conditions

IMAGES



Application Data

The following figures demonstrate typical fluorescence rEGFP as tested in the GFP Fluorometric Quantitation Kit. Fluorescence measurement was performed on SpectraMax Gemini XS Fluorometer (Molecular Devices) with a 485/538 nm filter set and 530 nm cutoff. One should use the data below for reference only. This data should not be used to interpret actual results.

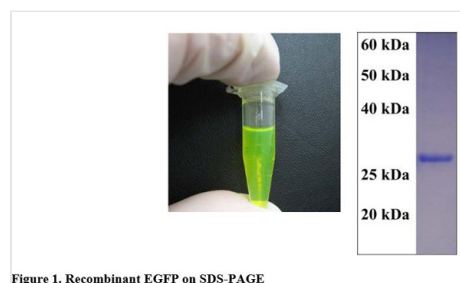


Figure 1. Recombinant EGFP on SDS-PAGE

Application Data

ADDITIONAL INFORMATION

Related Product Information for EGFP recombinant protein	- Includes 6xHis-tag at C-terminus - Provided at 100 ug/vial at 1.0 mg/mL in 1X PBS Green Fluorescent Protein (GFP) is a spontaneously fluorescent protein originally isolated from the jellyfish <i>Aequorea victoria</i>. Molecular cloning of the GFP gene and its subsequent expression in heterologous systems have established recombinant GFP (rGFP) as a valuable reporter molecule for in vivo visualization of gene expression events in a wide variety of cell types and organisms. GFP can fuse with proteins of interest without interfering significantly with their assembly and function. Based on the structure of the GFP molecule, many GFP variants have been created with much improved fluorescence emission, or shifted excitation or emission spectra that are well suited for fluorescence microscopy and flow cytometry. Since rGFP requires no additional substrates or cofactors, rGFP fluorescence can be easily detected under fluorescence microscope after expression in either prokaryotic or eukaryotic cells.
Product Categories/Family for EGFP recombinant protein	Cell Signaling and Protein Biology; Reporter Assays; Cells and Reagents; Recombinant Fluorescent Proteins

References

1. Chalfie M. et al, Science 263: 802-805, 1994.
2. Cormack B.P. et al, Gene 173: 33-38, 1996.
3. Rizzuto R. et al, Curr.Biol. 6:183-188 1996.
1. Caschera, F. & Noireaux, V. (2015). Preparation of amino acid mixtures for cell-free expression systems. Biotechniques. 58:40-43.
2. Caschera, F. & Noireaux, V. (2015). A cost-effective polyphosphate-based metabolism fuels an all E. coli cell-free expression system. Metab Eng. 27:29-37.
3. Sokolova, E. et al. (2013). Enhanced transcription rates in membrane-free protocells formed by coacervation of cell lysate. PNAS. 110: 11692-11697.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/egfp-recombinant-protein/11426>