

# Recombinant Yellow Fluorescent Protein

**Cat. No.** YFP-01    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The recombinant YFP (Yellow Fluorescent Protein) is expressed and purified from transformed E. coli using a method that ensures high purity and maximal YFP fluorescence. Endotoxin has been removed, so the protein is suitable for in vivo injection or cell culture applications. |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | The protein is a 26.4 kDa monomer with 238 amino acids, Ex./Em. = 525/538 nm, extinction coefficient 27390                                                                                                                                                                           |
| <b>Form</b>             | Freeze Dried                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 26.4 KDa                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MGSSHHHHHSSGLVPRGSHMRGSGSSGALLFHGKIPYVMEGNVDGHTFSIRG<br>KGYGDASVGKVDAQFICTTGDVPVPWSTLVTTLTGAQCFKAYGPELKD FYKSCM<br>PDGYVQERTITEGDGNFKTRAEVTFENGSVYNRVKLNGQGFKKDGHVLGKNLEFNF<br>TPHCLYIWGDQANHGLKSAFKICHEITGSKGDFIVADHTQMN TPIGGGPVHVPEYHH<br>MSYHVKLKSDVTDHRDNMSLKETVRAVDCRKTYL      |
| <b>Endotoxin</b>        | Less than 0.1 ng/μg                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | Greater than 97% by SDS-PAGE and HPLC                                                                                                                                                                                                                                                |
| <b>Applications</b>     | The protein is suitable as control reagent for YFP expression studies or as labeling                                                                                                                                                                                                 |

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reagent. Applications include: Use as standards for SDS-PAGE, Western blot analysis of YFP transfected cells, label other proteins, calibration of fluorometers and flow cytometers, fluorescence microscope, or microinjection of YFP into cells and tissues, etc. The recombinant YFP is ideal for fusion tag applications and is perfect for triple labeling with EGFP and RFP.

|                       |                                                |
|-----------------------|------------------------------------------------|
| <b>Storage</b>        | -80 °C for long-term storage                   |
| <b>Reconstitution</b> | Reconstitute with dH <sub>2</sub> O to 1 mg/ml |

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