

## Recombinant Red Fluorescent Protein (dsRed)

**CATALOG #:** 4997-100 100 µg  
4997-1000 1 mg

**LOT #:** \_\_\_\_\_

**SOURCE:** *E. coli*

**PURITY:** ≥97% by SDS-PAGE

**ENDOTOXIN:** ≤0.1 ng/µg

**FORM:** Freeze dried

**Reconstitution:** Reconstitute with dH2O to 1 mg/ml

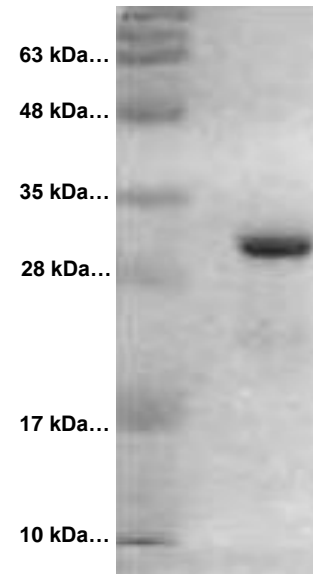
**STORAGE:** -80°C for long-term storage

### DESCRIPTION:

The recombinant RFP (dsRed) was expressed and purified from transformed *E. coli* using a method that ensures high purity and maximal RFP fluorescence. Endotoxin was removed, so the protein is suitable for in vivo injection or cell culture applications. The protein is a 27.6 kDa monomers containing a N-terminus 6x His-Tag with Ex./Em. = 557/585 nm, extinction coefficient ( $\epsilon_{280\text{ nm}} = 34380 \text{ M}^{-1} \text{ Cm}^{-1}$ ).

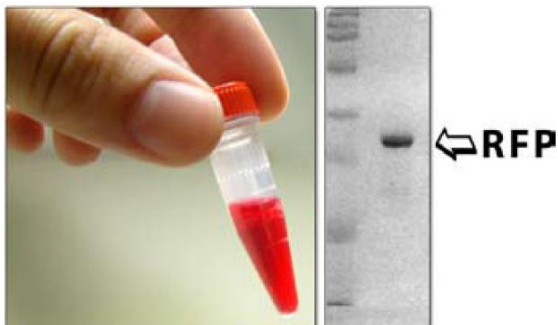
### APPLICATIONS:

The protein is suitable as control reagent for dsRed expression studies or as labeling reagent. Applications include: Use as standards for SDS-PAGE, Western blot analysis, label other proteins, calibration of fluorometers, flow cytometers, and fluorescence microscope, as well as microinjection of dsRed into cells and tissues, etc. The recombinant dsRed is ideal for fusion tag applications and is perfect for dual labeling with EGFP (Cat.# 4999-100).



### SDS-PAGE (12 %) of Recombinant Red Fluorescent Protein (dsRed):

Recombinant RFP Protein loaded under reducing conditions and stained with Coomassie Blue. The protein has a predicted MW of ~ 27.6 kDa; however, it runs larger on a SDS PAGE gel.



### RELATED PRODUCTS:

- Fluorescent Protein Set (**K816-6-100**)
- Blue Fluorescent Protein (BFP) (**4994-100, -1000, -5000**)
- Cyan Fluorescent Protein (**4996-100, -1000, -5000**)
- Enhanced Green Fluorescent Protein (EGFP) (**4999-100, -1000, -5000**)
- Yellow Fluorescent Protein (**4998-100, -1000, -5000**)