

Recombinant Red Fluorescent Protein, His-tagged

Cat. No. RFP-005E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	<p>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 (ϵ 280 nm = 34380 M⁻¹ Cm⁻¹).</p> <p>Fluorescent protein ideal for subcellular labeling/visualization</p>
Species	E.coli
Source	E.coli
Description	<p>Red fluorescent protein (RFP) is a fluorophore that fluoresces red-orange when excited. Several variants have been developed using directed mutagenesis. The original was isolated from Discosoma, and named DsRed. Others are now available that fluoresce orange, red, and far-red.</p>
Form	Lyophilized (Freeze Dried)
Molecular Mass	27.6 kDa
Endotoxin	<0.1 ng/μg
Purity	≥97%
Applications	The protein is suitable as control reagent for dsRed expression studies or as labeling

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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.

Usage	For Research Use Only! Not to be used in humans
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Storage	At -20 centigrade. At -80 centigrade for long-term storage.
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Reconstitution	Reconstitute with dH ₂ O to 1 mg/mL
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Handling	Centrifuge the vial prior to opening.
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GENE INFORMATION

Synonyms	RFP, Red Fluorescent Protein
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