

Recombinant Yellow Fluorescent Protein

Cat. No. YFP-007E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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. The protein is a 26.4 kDa monomer with 238 amino acids, Ex./Em. = 525/538 nm, extinction coefficient 27390. Fluorescent protein ideal for subcellular labeling/visualization
Species	E.coli
Source	E.coli
Description	Yellow fluorescent protein (YFP) is a genetic mutant of green fluorescent protein (GFP) originally derived from the jellyfish Aequorea victoria. Its excitation peak is 514 nm and its emission peak is 527 nm. Like the parent GFP, YFP is a useful tool in cell and molecular biology thanks to its properties useful for fluorescence microscopy.
Form	Lyophilized (Freeze Dried)
Molecular Mass	26.4 kDa
AA Sequence	MRGSGSSGALLFHGKIPYVVEGMEGNVDGHTFSIRGKGYGDASVGKVDAQFICTTGD VPVPWSTLVTTLTLYGAQCFAYGPELKDFYKSCMPDGYVQERTITFEGDGNFKTRA EVTFENGSVYNRVKLNQGGFKDGHVLGKNLEFNFTPHCLYIWGDQANHGLKSAFK ICHEITGSKGDFIVADHTQMNTPIGGGPVHVPEYHHMSYHVKLKSKDVTDHRDNMSLK ETVRAVDCRKTYL

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Endotoxin	<0.1 ng/μg
Purity	≥97%
Applications	The protein is suitable as control reagent for YFP expression studies or as labeling 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.
Usage	For Research Use Only! Not to be used in humans
Storage	At -20 centigrade. At -80 centigrade for long-term storage.
Reconstitution	Reconstitute with dH ₂ O to 1 mg/mL
Handling	Centrifuge the vial prior to opening.
GENE INFORMATION	
Synonyms	YFP, Yellow Fluorescent Protein

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