

Recombinant Cyan Fluorescent Protein, His-tagged

Cat. No. CFP-002E **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The recombinant CFP (Cyan Fluorescent Protein) is expressed and purified from transformed E. coli using a method that ensures high purity and maximal CFP fluorescence. Endotoxin has been removed, so the protein is suitable for in vivo injection or cell culture applications. The protein is a 31.3 kDa monomer with 284 amino acids and an N-terminal His-tag, Ex./Em. = 458/480 nm, extinction coefficient 26000M⁻¹CM⁻¹.

Fluorescent protein ideal for subcellular labeling/visualization.

Species E.coli

Source E.coli

Description

Cyan Fluorescent Protein (CFP) is a versatile biological marker for monitoring physiological processes, visualizing protein localization, and detecting transgenic expression in vivo.

Form Lyophilized (Freeze Dried)

Molecular Mass 31.3 kDa

AA Sequence

MSGGEELFAGIVPVLIELDGDVHGHKFSVRGEGEGDADYGKLEIKFICTTGKLPVPW
PTLVTTLAWGIQCFARYPEHMKMNDFFKSAMPEGYIQERTIHFQDDGKYKTRGEVK
FEGDTLVNRVELKGEGFKEDGNILGHKLEYSASDNVYIMPDKANNGLEANFKIRHNI
EGGGVQLADHYQTNVPLGDGPVLIPINHYLSCQSAISKDRNEARDHMLLESFSAYC
HTHGMDELYRSGLRSAQASNSAVDGTAGPGSTGSR

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Endotoxin	<0.1 ng/μg
Purity	≥97%
Applications	The protein is suitable as a control reagent for CFP expression studies or as a labeling reagent. Applications include: Use as standards for SDS-PAGE, Western blot analysis of CFP transfected cells, label other proteins, calibration of fluorometers and flow cytometers, fluorescence microscope, or microinjection of CFP into cells and tissues, etc. The recombinant CFP is ideal for fusion tag applications and is perfect for triple labeling with EGFP, RFP or YFP.
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	CFP, Cyan Fluorescent Protein