

## Recombinant Cyan Fluorescent Protein, His-tagged

Cat. No. CFP-187 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<sup>-1</sup>CM<sup>-1</sup>.

**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 protein, Freeze Dried

**Molecular Mass** 31.3 kDa

**AA Sequence**

MSGGEELFAGIVPVLIELDGDVHGHKFSVRGEGEGDADYGKLEIKFICTTGKLPVPW  
 PTLVTTLAWGIQCFARYPEHMKMNDFFKSAMPEGYIQERTIHFQDDGKYKTRGEVK  
 FEGDTLVNRVELKGEGFKEDGNILGHKLEYSASDNVYIMPDKANNGLEANFKIRHNI  
 EGGGVQLADHYQTNVPLGDGPVLIPINHYLSCQSAISKDRNEARDHMLLESFSAYC  
 HTHGMDELYRSLRSRAQASNSAVDGTAGPGSTGSR

**Endotoxin** < 0.1

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	ng/μg
<b>Purity</b>	≥ 97%
<b>Applications</b>	<p>The protein is suitable as a control reagent for CFP expression studies or as a labeling reagent.</p> <p>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.</p>
<b>Usage</b>	For Research Use Only! Not For Use in Humans.
<b>Storage</b>	Store at -20 centigrade; Store at -80 centigrade for long-term storage.
<b>Reconstitution</b>	Reconstitute with dH <sub>2</sub> O to 1 mg/mL
<b>Shipping</b>	Gel Pack

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