

Recombinant Cyan Fluorescent Protein (CFP)

CATALOG #:	4996-100	100 µg
	4996-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	≥97% by SDS-PAGE and HPLC	
ENDOTOXIN:	≤0.1 ng/µg	
FORM:	Freeze dried	
Reconstitution:	Reconstitute with dH ₂ O to 1 mg/ml	
STORAGE:	-80°C for long-term storage	

DESCRIPTION:

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.

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 (Cat.# 4999-100), RFP (Cat.# 4997-100) or YFP (Cat.# 4998-100).

AMINO ACID SEQUENCE:

MSGGEELFAGIVPVLIELDGDVHGHKFSVRGEGEGDADYKLEIKFICTTGKLPVWPPTLV
 TTLWGIQCFARYPEHMKMNDFFKSAMPEGYIQERTIHFQDDGKYKTRGEVKFEGDTLVNR
 VELKGEFGKEDGNILGHKLEYSASIDNVYIMPDKANNGLANFKIRHNIEGGGVQLADHYQ
 TNVPLGDGPVLIPIINHYLSCQSAISKDRNEARDHMVLLSFSAYCHTHGMDELRYRGLRSR
 AQASNSAVDGTAGPGSTGSR

FOR RESEARCH USE ONLY! Not to be used in human subjects.

RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC & HAT Fluorometric & Colorimetric Assays
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Resistin, Leptin, Visfatin
- CETP & PLTP Activity Assay & Drug Discovery Kits
- Cholesterol & HDL/LDL Quantification Kits
- Triglyceride, Glycerol, and Choline Assay Kits

Metabolism Assays

- Ascorbic Acid, Lactate, Pyruvate, Uric Acid, Ethanol Assay Kits
- Glucose, Sucrose, Galactose, Lactose, Maltose Assay Kits
- NAD/NADH, NADP/NADPH, ADP/ATP Assay Kits

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit

Growth Factors and Cytokines

Polyclonal and Monoclonal Antibodies