



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Recombinant Green Fluorescent Protein

Catalog No.
228-10526

Source
Escherichia Coli.

Synonyms

Green fluorescent protein, GFP.

Introduction

rGFP, also known as Green Fluorescent Protein, is a protein produced by the jellyfish (*Aequorea Victoria*) that produces bioluminescence in the green zone of the noticeable spectrum. Green Fluorescent Protein is a useful and ubiquitous instrument for producing chimeric proteins, where it functions as a fluorescent protein tag. rGFP is expressed in most known cell types and is used as a noninvasive fluorescent marker in living cells and organisms. Green Fluorescent Protein permits a broad range of applications where it has functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions.

Description

rGFP *Aequorea victoria* produced in *E.Coli* is a single, non-glycosylated polypeptide chain containing 238 amino acids (1-238 a.a.) and having a molecular mass of 26.8 kDa. rGFP is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered yellowish solution.

Formulation

The Green Fluorescent Protein solution contains 20mM Tris, pH-8 and 10% Glycerol.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

Store, frozen at -20°C for longer periods of time.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Amino acid sequence

MSKGEELFTG VVPILVELDG DVNGHKFSVS GEGEDATYG KLTLKFICTT
GKLPVPWPTL VTTFSYGVQC FSRYPDHMKQ HDFFKSAMPEGYVQERTIFF
KDDGNYKTRA EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV
YIMADKQKNG IKVNFKIRHN IEDGSVQLAD HYQQNTPIGD GPVLLPDNHY
LSTQSALSKD PNEKRDHMLV LEFVTAAGIT HGMDELYK .

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