

rGFP

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.

Catalog #: PRPS-694

For research use only.

Synonyms: Green fluorescent protein, GFP.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered yellowish solution.

Amino Acid Sequence: MSKGEELFTG VVPILVELDG DVNGHKFSVS GEGEGDATYG
KLTLKFICTT GKLPVPWPTL VTTFSGVQC FSRYPDHMKQ HFFKSAMPEGYVQERTIFF
KDDGNYKTRA EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG
IKVNFKIRHN IEDGSVQLADHYQQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV
LEFVTAAGIT HGMD

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

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

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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