
Product Data Sheet

Product Name: rGFP
 Cat. No.: GP23361
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Green fluorescent protein; GFP.		
Amino Acid Sequence	MSKGEELFTG VVILVELDG DVNGHKFSVS GEGEGDATYG KLTLKFICTT GKLPVPWPTL VTTFSYGVQC FSRYPDHEMKQ HFFKSAMPEGYVQERTIFF KDDGNYKTRA EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG IKVNFKIRHN IEDGSVQLADHYQQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV LEFVTAAGIT HGMDELYK.		
Formulation	The Green Fluorescent Protein solution (1mg/ml) contains 20mM Tris-HCl, pH-8 and 10% Glycerol.		

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.

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.

Background

rGFP *Aequorea victoria* produced in *E. coli* is a single, non-glycosylated polypeptide chain

Caution: Product has not been fully validated for medical applications. For research use only.

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containing 238 amino acids (1-238 a.a.) and having a molecular mass of 26.8 kDa.rGFP is purified by proprietary chromatographic techniques.

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