



Recombinant Green Fluorescent Protein

Cat.: G7951

Synonyms: Recombinant GFP

Source : Escherichia Coli.

Introduction

Recombinant GFP, also known as Recombinant Green Fluorescent Protein, is a protein produced by the jellyfish (*Aequorea Victoria*) that produces bioluminescence in the red 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. GFP 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

Recombinant GFP produced in *E.coli* cells is a non-glycosylated, **monomeric** protein containing 246 amino acid chain. Recombinant **GFP** is purified by proprietary chromatographic techniques. The Recombinant GFP is a protein that exhibit bright green fluorescence when exposed to green light. It possesses bright green fluorescence (excitation/ emission max = 488 / 507 nm).

Solubility :It is recommended to reconstitute the lyophilized Recombinant GFP in sterile distilled H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Source: *Aequorea Victoria*

Purity: > 90 % as determined by SDS-PAGE

Stability: Samples are stable for up to twelve months from date of receipt at -70 °C

Formulation: Lyophilized from sterile PBS, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.