

Green Fluorescent Protein (GFP)

Cat. : G7950

Storage: Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

Protein Description:

The green fluorescent protein (GFP) is a protein that exhibit bright green fluorescence when exposed to blue light. GFPspark™ is an improved variant of the green fluorescent protein GFP. It possesses bright green fluorescence (excitation/ emission max = 487 / 508 nm) that is visible earlier than fluorescence of other green fluorescent proteins. GFPspark™ is mainly intended for applications where fast appearance of bright fluorescence is crucial. Its amazing ability to generate a highly visible, efficiently emitting internal fluorophore is both intrinsically fascinating and tremendously valuable. It is specially recommended for cell and organelle abeling and tracking the promoter activity.

Protein Construction:

A DNA sequence encoding the Aequorea victoria GFP (AAB65663) (Ser 2-Lys 238) was expressed, with a polyhistide tag at the N-terminus.

Source: Aequorea victoria

Expression Host: E. coli

Purity: > 90 % as determined by SDS-PAGE

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

Predicted N terminal: Met

Molecular Mass: The recombinant Aequorea victoria GFP consisting of 253 amino acids and has a calculated molecular mass of 28.7 kDa. It migrates as an 35 kDa band in SDS-PAGE under reducing conditions as predicted.

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.