

GFP Protein, Aequorea victoria, Recombinant (aa 2-238, His)

General Information

Synonyms:	GFP Protein
Protein Construction:	A DNA sequence encoding the Aequorea victoria GFP (AAB65663) (Ser2-Lys238) was expressed with a polyhistide tag at the N-terminus. Predicted N terminal: Met
Species:	Aequorea victoria
Expression Host:	E. coli
Accession:	AAB65663
Molecular Weight:	28.7 kDa (predicted); 34 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity Assay
Purity:	≥ 90 % as determined by SDS-PAGE. ≥ 85 % as determined by SEC-HPLC.
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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 labeling and tracking the promoter activity.

Reference

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