

Aequorea victoria GFP Protein (His Tag)

Catalog Number: 13105-S07E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

GFP

Protein Construction:

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

Source: Aequorea victoria

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:

Activity Assay

Endotoxin:

Please contact us for more information.

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.

Usage Guide

Storage:

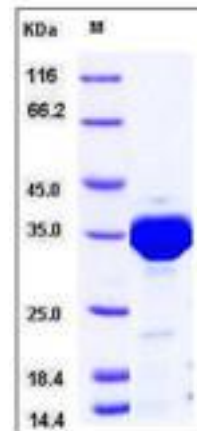
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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 labeling and tracking the promoter activity.

References

1. Evdokimov *et al.* (2006). EMBO Rep, 7 (10):1006–1012 / pmid: 16936637.
2. Haas *et al.* (1996). Curr Biol, 6 (3): 315–324 / pmid: 8805248.
3. Kremers *et al.* (2006). Biochemistry, 45 (21): 6570–6580 / pmid: 16716067.

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