

Aequorea victoria Green fluorescent protein / GFP (His Tag)



Catalog Number: 504489

General Information

Protein Construction

A DNA sequence encoding the Aequorea victoria GFP (AAB65663) (Met1-Leu238, except for the point mutations of intellectual property :F64L, S65T, R80K, S99F, T153M, I167V, H231L) was expressed, with a polyhistide tag at the C-terminus (Patent 201410599023.9).

Organism

Aequorea victoria

Expression Host

E. coli

QC Testing

Activity

GFPSpark™ expression vector transfected 293H cells transiently. After 48h, the strong green fluorescent signals can be detected under the excitation channel of 455~495 nm.

Purity

> 97 % as determined by SDS-PAGE

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 GFPSpark™ consisting of 245 amino acids and has a calculated

molecular mass of 27.7 kDa.

Formulation

Lyophilized from sterile PBS, pH 7.5

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

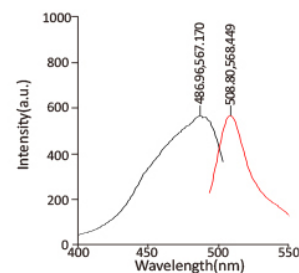
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

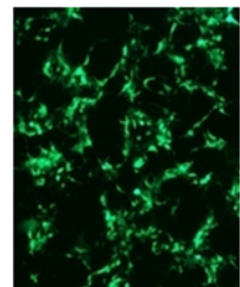
Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Normalized excitation (black line) and emission (Red line) spectra of GFPSpark™



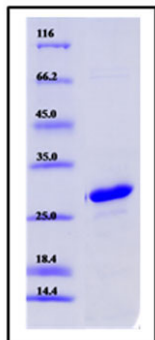
GFPSpark™ expression in 293H cell for 48h. The strong green fluorescent signals can be detected under the excitation channel of 455~495 nm.

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GFPSpark™ on SDS-PAGE



GFPSpark™ protein of high purity

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