

Recombinant aequorea victoria GFP protein

Catalog Number: ATGP0302

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-238aa

UniProt No.

P42212

NCBI Accession No.

AAA27721.1

Alternative Names

Green fluorescent protein

PRODUCT SPECIFICATION

Molecular Weight

26.8 kDa (238aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

GFP, also known as green fluorescent protein, is a protein produced by the jellyfish (Aequorea Victoria) that emits bioluminescence in the green zone of the visible spectrum. GFP has become a useful and ubiquitous tool for making chimeric proteins, where it functions as a fluorescent protein tag. It has been expressed in most known cell types and is used as a noninvasive fluorescent marker in living cells and organisms. This protein

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enables a wide range of applications where it has functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions. Recombinant GFP protein was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

MSKGEELFTG VVPILVELDG DVNGHKFSVS GELEGDATYG KLTLKFICTT GKLPVPWPTL VTTFSYGVQC FSRYPDHMKQ
HDFFKSAMPE GYVQERTIFF KDDGNYKTRA EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG
IKVNFKIRHN IEDGSVQLAD HYQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV LEFVTAAGIT HGMDELYK

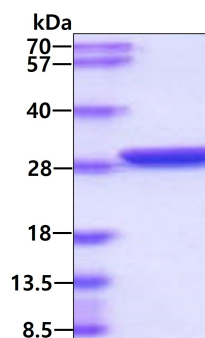
General References

Millan MI, et al. (2009). *Medicina*. 69(3):370-4.

Marshall J, et al. (1995). *Neuron*, 14(2):211-5.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.