

Recombinant GFP Protein

Cat. No. GFP-11 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Aequorea victoria GFP; amino acids 1-238 (238 amino acids), 26.8kDa. Swiss ID = P42212.
Species	Aequorea victoria
Source	E.coli
ProteinLength	238 amino acids
Description	Green fluorescent protein (GFP) is a 27 kDa protein derived from the jellyfish Aequorea victoria, which emits green light (emission peak at a wavelength of 509 nm) when excited by blue light (excitation peak at a wavelength of 395 nm). GFP has become an invaluable tool in cell biology research, since its intrinsic fluorescence can be visualized in living cells. GFP fluorescence is stable under fixation conditions and suitable for a variety of applications. GFP has been widely used as a reporter for gene expression, enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining. Other applications of GFP include assessment of protein protein interactions through the yeast two hybrid system and measurement of distance between proteins through fluorescence energy transfer (FRET) protocols. GFP technology has considerably contributed to a greater understanding of cellular physiology. YFP differs from GFP due to a mutation at T203Y; antibodies raised against full-length GFP should also detect YFP and other variants.

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Form	Liquid
Molecular Mass	26.8kDa
AA Sequence	MSKGEELFTG VVPILVELDG DVNGHKFSVS GEGEGDATYG KLTLKFICTT GKLPVPWPTL VTTFSYGVQC FSRYPDHMKQ HDEFFKSAMPE GYVQERTIFF KDDGNYKTRA EVKFECDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG IKVNFKIRHN IEDGSVQLAD HYQQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV LEFVTAAGIT HGMDELYK
Endotoxin	Endotoxin Level:< 1.0 eu per 1 µg of protein (determined by lal
Purity	>95 % by SDS-PAGE
Applications	SDS-PAGE; WB
Storage	Store at +4 centigrade short term (1-2 weeks). Aliquot and store at -20 centigrade or -80 centigrade. Avoid repeated freeze / thaw cycles. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Concentration	1 mg/ml
Storage Buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0

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