

Product information

GFP, 1-238 aa

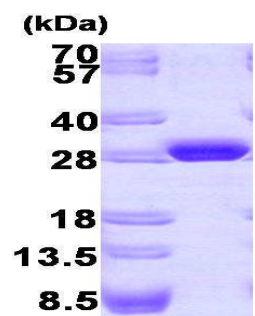
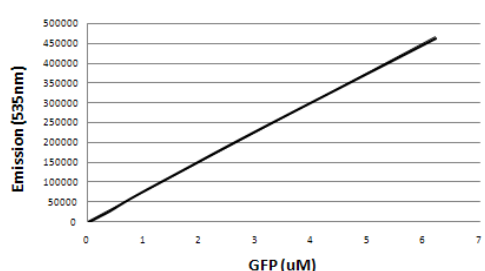
Cat. No. IBATGP0302

Aequorea victoria*, Recombinant, *E.coli

Full name: Green fluorescent protein

NCBI Accession No.: P42212

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 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 *Aequorea Victoria* GFP protein was expressed in *E.coli* and purified by using conventional chromatography.

<p>Form: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol</p> <p>Molecular Weight: 26.8 kDa (238aa), confirmed by MALDI-TOF</p> <p>Purity: > 95% by SDS - PAGE</p> <p>Concentration: 1 mg/ml (determined by Bradford assay)</p> <p>Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)</p>	 <p>15% SDS-PAGE (3µg)</p>
<p>Analysis:</p> <ol style="list-style-type: none"> 1. Prepare a 150µl recombinant GFP with various concentrations (0.00074 nM - 6.21µM) in assay buffer and equilibrate to 25°C. (Assay buffer: 10 mM Tris-HCl (pH 8.0), 10 mM EDTA, 0.02% sodium azide.) 2. Read at excitation wavelengths 485nm and emission 535nm. <ul style="list-style-type: none"> - 96 Well Polystyrene Microplate, black (greiner bio-one, Cat.No, 655077) - Fluorescent plate reader (PerkinEmerl, VICTOR X3) 	
<p>Sequences of amino acids:</p> <p>MSKGEEELFTG VVPILVELDG DVNGHKFSVS GEGEGDATYG KLTLKFICTT GKLPVPWPTL VTTFSYGVQC FSRYPDHMKQ HOFFKSAMPE GYVQERTIFF KDDGNYKTRA EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG IKVNFKIRHN IEDGSQLAD HYQQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV LEFVTAAGIT HGMDLYK</p>	

General references:

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

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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Product information

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.
Avoid repeated freezing and thawing cycles.

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