

GFP Protein, Aequorea victoria (His)

Cat. No.:	HY-P71461
Synonyms:	GFPGreen fluorescent protein
Species:	Others
Source:	E. coli
Accession:	P42212 (M1-K238)
Gene ID:	/
Molecular Weight:	27-31 kDa

PROPERTIES

AA Sequence	<pre> MSKGEELFTG VVPILVELDGL DVNGHKFSVSL GEGEGDATYGL KLTLLKFICTT GKLPVPWPTL VTTFSYGVQCL FSRYPDHMKQL HDDFFKSAMPE GYVQERTIFF KDDGNYKTRAL EVKFEGDTLVL NRIELKGIIDF KEDGNILGHKL LEYNYNSHNV YIMADKQKNGL IKVNFKIRHNL IEDGSVQLADL HYQNTPIGLD GPVLLPDNHYL LSTQSALS KDL PNEKRDHMLVL LEFVTAAGITL HGMDELYKL </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 or 50 mM Tris, 300 mM NaCl, 5% trehalose, 5% mannitol and 0.01% Tween 80, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 1 year, protect from light. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The Green Fluorescent Protein (GFP) serves as an energy-transfer acceptor, converting the blue chemiluminescence emitted by the protein aequorin into green fluorescent light through energy transfer. GFP's unique ability to fluoresce in vivo is contingent upon receiving energy from the Ca(2+)-activated photoprotein aequorin. This remarkable property has made GFP an invaluable tool in molecular and cellular biology, enabling the visualization of specific proteins and cellular structures in living organisms. The utilization of GFP as a fluorescent marker has revolutionized biological research, facilitating non-invasive and real-time imaging of dynamic cellular processes (</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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