

Recombinant Enhanced Green Fluorescence Protein

Catalog No: #AP60508



Package Size: #AP60508-1 10ug #AP60508-2 500ug

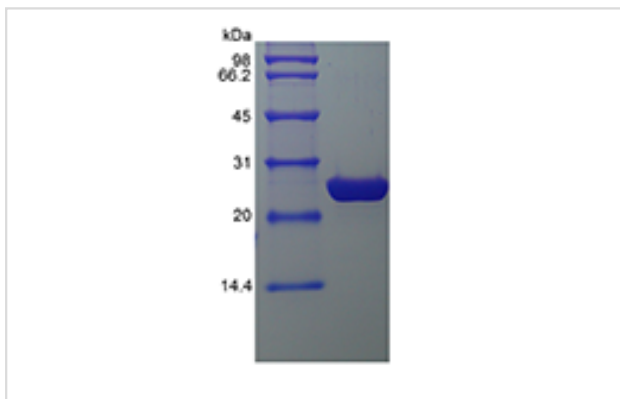
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Description

Product Name	Recombinant Enhanced Green Fluorescence Protein
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	eGFP
Calculated MW	Approximately 26.9 kDa, a single non-glycosylated polypeptide chain containing 239 amino acids.
Target Sequence	MVSKGEELFT GVPILVELD GDVNGHKFSV SGEGEDATY GKLTLFICT TGKLPVPWPT LVTTLTYGVQ CFSRYPDHMK QHDFFKSAMP EGYVQERTIF FKDDGNYKTR AEVKFEGDTL VNRIELKGID FKEDGNILGH KLEYNYN SHN VYIMADKQKN GIKVNFKIRH NIEDGSVQLA DHYQQNTPIG DGPVLLPDNH YLSTQSALSK DPNEKRDH MV LLEFVTAAGI TLGMDELYK
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. -□ A minimum of 12 months from date of receipt, when stored at ≤-20 °C as supplied. -□ 1 month, 2 to 8 °C under sterile conditions after reconstitution. -□ 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Images



Background

Green fluorescent protein (GFP) here refers to the protein first purified from jellyfish *Aequorea victoria*, though many other organisms have similar proteins. It is a 26.9 kDa protein (composed of 238 a.a. residues) that shows green fluorescence in short-wave light (blue to ultraviolet). Despite of wild-type GFP, many mutants of GFP have been engineered for wider usage in research. Enhanced GFP (eGFP) has S65T and F64L mutations, which make GFP show increased fluorescence and fold more efficiently under 37°C respectively. eGFP allows the use of GFP in mammalian cells. In *A. Victoria*, GFP plays roles as an energy transfer acceptor. It has long been used in cell and molecular biology as a reporter of gene expression. GFP can also be applied as a molecular thermometer to measure temperature accurately in fluids.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.