

## 32-3714: EGFP Recombinant Protein

**Alternative Name :** Green fluorescent protein,GFP.

### Description

Source : Escherichia Coli. Recombinant EGFP produced in E.coli cells is a non-glycosylated, homodimeric protein containing 239 amino acid chain and having a molecular mass of 26.9kDa. EGFP is purified by proprietary chromatographic techniques. GFP, also known as Green Fluorescent Protein, is a protein produced by the jellyfish (Aequorea Victoria) that produces bioluminescence in the green zone of the noticeable spectrum. Green Fluorescent Protein is a useful and ubiquitous instrument for producing chimeric proteins, where it functions as a fluorescent protein tag. GFP is expressed in most known cell types and is used as a noninvasive fluorescent marker in living cells and organisms. Green Fluorescent Protein permits a broad range of applications where it has functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions. Enhanced GFP (eGFP) has F64L and S65T mutations, which make GFP show increased fluorescence and fold more efficiently under 370.

### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	The EGFP was lyophilized from a 0.2µm filtered concentrated solution in PBS pH 7.4.
<b>Storage condition :</b>	Lyophilized EGFP although stable at room temperature for 3 weeks, should be stored desiccated below -180C. Upon reconstitution EGFP should be stored at 40C between 2-7 days and for future use below -180C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	MVSKGEELFT GVPILVELD GDVNGHKFSV SGEGEDATY GKLTLKFICT TGKLPVPWPT LVTTLTLYGVQ CFSRYPDHMK QHDFFSAMP EGYVQERTIF FKDDGNYKTR AEVKFEGDTL VNRIELKPID FKEDGNILGH KLEYNYNSHN VYIMADKQKN GIKVNFKIRH NIEDGSVQLA DHYQQNTPIG DGPVLLPDNH YLSTQSALSK DPNEKRDHNV LLEFVTAAGI TLGMDELYK

### Application Note

It is recommended to reconstitute the lyophilized EGFP in sterile distilled H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.