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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

Amount :	20 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The EGFP was lyophilized from a 0.2µm filtered concentrated solution in PBS pH 7.4.
Storage condition :	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.
Amino Acid :	MVSKGEELFT GVVPILVELD GDVNGHKFSV SGEGEGDATY GKLTLKFICT TGKLPVPWPT LVTTLTYGVQ CFSRYPDHMK QHDFFKSAMP EGYVQERTIF FKDDGNYKTR AEVKFEGDTL VNRIELKGID FKEDGNILGH KLEYNYNSHN VYIMADKQKN GIKVNFKIRH NIEDGSVQLA DHYQQNTPIG DGPVLLPDNH YLSTQSALSK DPNEKRDHMV 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.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.