

Enhanced Green Fluorescent Protein Recombinant

Item Number	rAP-3999
Synonyms	Green fluorescent protein, GFP.
Description	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.
Uniprot Accession Number	
Amino Acid Sequence	MVSKGEELFT GVVPIVELD GDVNGHKFSV SGEGEDATY GKLTCLKFICT TGKLPVPWPT LVTTLTLYGVQ CFSRYPDHMK QHDFFKSAMP EGYVQERTIF FKDDGNYKTR AEVKFEGDTL VNRI- ELKGID FKEDGNILGH KLEYNYNESHV VYIMADKQKN GIKVNFKIRH NIEDGSVQLA DHYQQNTPIG DGPVLLPDNH YLSTQSALSK DPNEKRDHNV LLEFVTAAGI TLGMDELYK
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	The EGFP was lyophilized from a 0.2µm filtered concentrated solution in PBS pH 7.4. Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	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.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**