碧云天生物技术/Beyotime Biotechnology
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Recombinant eGFP

产品编号	产品名称	包装
P7410-10μg	Recombinant eGFP	10μg
P7410-50μg	Recombinant eGFP	50μg
P7410-1mg	Recombinant eGFP	1mg

产品简介：

Species	Gene ID	Accession	Source	Length	MW	Tag
—	7011691	B6UPG7	*E. coli*	239aa	26.9kDa	—

About this protein	
Name	Recombinant eGFP (Recombinant Enhanced Green Fluorescent Protein; reGFP)；重组增强绿色荧光蛋白
Synonyms	eGFP; GFPuv; Enhanced Green Fluorescent Protein
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	N/A
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH7.4.
Endotoxin	Less than 1EU/μg of reGFP as determined by LAL method.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤-20ºC. Further dilutions should be made in appropriate buffered solutions.
Category	Others
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 26.9kDa protein (composed of 238a.a. residues) that shows green fluorescence in shortwave 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 37ºC, 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 been applied as a molecular thermometer to measure temperature accurately in fluids.
Amino Acid Sequence	MVSKGEELFT GVVPILVELD GDVNGHKFSV SGEGEGDATY GKLTLKFICT TGKLPVPWPT LVTTLTYGVQ CFSRYPDHMK QHDFFKSAMP EGYVQERTIF FKDDGNYKTR AEVKFEGDTL VNRIELKGID FKEDGNILGH KLEYNYNSHN VYIMADKQKN GIKVNFKIRH NIEDGSVQLA DHYQQNTPIG DGPVLLPDNH YLSTQSALSK DPNEKRDHMV LLEFVTAAGI TLGMDELYK

包装清单：

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P7410-10μg	Recombinant eGFP	10μg
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P7410-1mg	Recombinant eGFP	1mg
—	说明书	1份

保存条件：

-20ºC或更低温度保存，至少一年有效。由于蛋白的每次冻融均会引起部分失活，所以首次配制成相应浓度的储存液后(请根据产品简介中Reconstitution一栏的信息配制储存液)，须分装后-20ºC或更低温度冻存，以避免反复冻融。

注意事项：

- 由于有些塑料管壁对某些蛋白有较强的吸附作用，溶液中的蛋白很容易粘附在管壁上，并且粘附后的蛋白很难与管壁分离。而载体蛋白(Carrier protein，如0.1% BSA等)的主要作用是预先封闭塑料管壁上的蛋白结合位点，使细胞因子或重组蛋白不会粘附于管壁。所以一定要使用产品简介中Reconstitution一栏的信息配制储存液。
- 本产品仅限于专业人员的科学研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

使用说明：

1. 收到产品后请立即按照说明书推荐的条件保存。除非特别注明，碧云天相关产品均为冻干粉，由于微量的蛋白在冻干过程中沉积在管内，形成很薄或不可见的蛋白层，所以在打开管盖前，我们建议在离心机中约8,000-12,000g离心10-30秒，使附着在管盖或管壁上的蛋白聚集于管底。
2. 请根据实验目的并按照产品简介中Reconstitution一栏中的信息配制储存液。大多数细胞因子或重组蛋白的冻干粉是非常容易溶解的，一般用移液枪的枪头轻吹几下或者轻轻摇晃瓶子，即可使细胞因子或重组蛋白完全溶解。请勿用vortex剧烈振荡，以免蛋白变性而失活。
3. 具体的最佳工作浓度请自行参考相关文献，或者根据实验目的，以及特定细胞和动物，通过实验进行摸索和优化。

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