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Datasheet for ABIN7536584
eGFP Protein (His tag)

Overview

Quantity:	100 µg
Target:	eGFP
Origin:	Aequorea victoria
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This eGFP protein is labelled with His tag.

Product Details

Purpose:	Recombinant Aequorea victoria EGFP Protein
Sequence:	MVSKGEELFT GVVPILVELD GDVNGHKFSV SGEGEGDATY GKLTCLKFICT TGKLPVPWPT LVTTLTYGVQ CFSRYPDHMK QHDFFKSAMP EGYVQERTIF FKDDGNYKTR AEVKFEGDTL VNRIELKIGD FKEDGNILGH KLEYNYN SHN VYIMADKQKN GIKVNFKIRH NIEDGSVQLA DHYQQNTPIG DGPVLLPDNH YLSTQSALS K DPNEKRDH MV LLEFVTAAGI TLGMDELYK
Specificity:	Met1-Lys238(F64L,S65T)
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

Target Details

Target:	eGFP
Alternative Name:	EGFP (eGFP Products)

Target Details

Background: Description: 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 37 °C.

Name: Green fluorescent protein,GFP,EGFP

UniProt: [P42212](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C,-80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.