Recombinant Renilla reniformis GFP Protein, C-Avi tagged

Cat. No. GFP-23RB **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Green Fluorescent Protein of Renilla reniformis was genetically engineered to be produced in E. coli and to contain the Avitag peptide sequence (GLNDIFEAQKIEWHE). The Avitag peptide has been efficiently biotinylated by the E.coli enzyme, biotin ligase. Biotin ligase covalently attaches 1 biotin molecule to the lysine within Avitag.
Species	Renilla reniformis
Source	E.coli
Description	The Green Fluorescent Protein of Renilla reniformis has a diverse range of uses in cell biology, drug discovery, biomedical research, high throughput screening (HTS) and fluorescence activated cell sorting (FACS). Fluorescent proteins expressed in living cells (e.g. fungi, bacteria, animals and plants) can be used to study molecular processes in real time such as dynamics of nuclear division, protein trafficking, etc. GFPs can also be used for the dynamic monitoring of protein interactions using FRET or BRET technologies.
Conjugation/Label	Biotin
Bio-activity	Ratio 495nm/280nm = 3.7. Fluorescence measurements are dependent on individual fluorometer and must be determined by the user.
Molecular Mass	29,525 daltons

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Purity	> 98% by Coomassie staining.
Storage	The enzyme arrives on dry ice (or, in some cases, ice bricks) and should be immediately stored at -80 centigrade. Protein can be quickly thawed and placed at 4 centigrade. Avoid repeated freezing and thawing of protein.
Concentration	2.0 mg/mL by A280.
Storage Buffer	10mM Na2HPO4, 140mM NaCl, 2mM KH2PO4, 3mM KCl, 20% glycerol pH 7.6.

GENE INFORMATION

Official Symbol	GFP
Synonyms	GFP; Green Fluorescent Protein

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