



LD Biopharma, Inc.
7384 Trade Street, Suite B
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- PRODUCT DATA SHEET -

Name of Product: Recombinant EGFP-9R Protein
Catalog Number: RP-0053
Manufacturer: LD Biopharma, Inc. USA

Introduction

This version of GFP is the second generation monomeric green fluorescent protein (Enhanced GFP) that has improved brightness and photostability. This recombinant GFP protein was constructed with N-terminal tag of HA2 peptide for efficient endosomal release after intracellular protein delivery, and C-terminal 9 arginine domain / 6His Tag, which will efficiently delivery this recombinant protein intracellularly.

This EGFP-9R protein was expressed in *E.coli* as soluble protein and was purified using Ni-NTA Superflow column. Incubating this protein in various culture mediums at 2ug/ ml concentration could be used for monitoring intracellular protein delivery efficiency.

Gene Symbol: EGFP
Accession Number: AF288620
Species: Jellyfish Aequorea Victoria
Size: 50 µg / Vial
Composition: 1.0 mg/ml, sterile-filtered, in PBS buffer / 20% Glycerol.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least two weeks.

Key References

Cutler,S.R., et al. *Random GFP::cDNA fusions enable visualization of subcellular structures in cells of Arabidopsis at a high frequency*. Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3718-3723 (2000)

Hongyan Zhou, et al. *Generation of Induced Pluripotent Stem Cells Using Recombinant Proteins*. Cell Stem Cell. 4: 381-384 (2009).

Applications



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9 arginine tag (9R Tag) modified EGFP protein, which can be used as negative control in any transcription factor protein intracellular delivery experiments.

Quality Control

- Purity: > 95 % by SDS-PAGE.
- This EGFP-9R, have a single excitation peak centered at about 488 **nm**, with an emission peak wavelength of 509 **nm**.

Recombinant EGFP -9R Protein Sequence (33.1 kD)

MGDIMGEWGNEIFGAIAGFLGVSKGEELFTGVVPILVELDGDVNGHKFSVSGEGEGDATYGKLT
LKFICTTGKLPVPWPTLVTTLYGVQCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYK
TRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNNSHNVIYIMADKQKNGIKVNFKIRHNI
EDGSVQLADHYQQNTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDHMLLEFVTAAGITLGMDE
LYKSRHRRHRQRSRSRAAAARRRRRRRRHHHHH