Active Recombinant EGFP-rProtein A, His-tagged

Cat. No. GFP-27H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant EGFP-rProtein A are produced in E. coli, and purified using multiple chromatographic steps (not affinity purified with human IgG). EGFP-rProtein A bind to most mammalian immunoglobulins in their Fc binding domains and therefore are ideal for immunofluorescence staining. The genetically engineered protein was expressed and purified from transformed E. coli containing only the IgG binding regions and have 6X His-tag on their N-terminus. Other domains such as cell wall binding region, albumin binding region and other non-specific binding regions have been eliminated from all these proteins to ensure the maximum specific IgG binding and maximal fluorescence.
Source	E.coli
Form	Liquid. The product is 1 mg/ml in 10 mM Phosphate buffered saline, pH 7.4 containing, 10% glycerol and 0.1% sodium azide as preservative.
Bio-activity	IgG Binding: >95%. Under optimal conditions, 1 mg EGFP-rProtein A will bind approximately 5 mg IgG. Optimal binding of EGFP-rProtein A to antibodies occurs at pH 5.0 to 8.0 and can be eluted over a pH range of 2.5 to 3.0.
Endotoxin	< 0.05="" eu/mg="">
Purity	>98% by SDS-PAGE and HPLC
Applications	The protein is suitable as control reagent for EGFP expression studies or as labeling reagent. Applications include: Flow cytometers, fluorescence microscopy, and

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	microinjection, antibody purification, etc. at 1:100 dilution. Maximum absorption wavelength at 488 nm and emission wavelength at 507 nm.
Storage	Store at -20°C. -80°C for long-term storage. Avoid exposure to light. Avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	gfp green fluorescent protein [Neisseria gonorrhoeae]
Official Symbol	GFP
Synonyms	GFP; green fluorescent protein;
Gene ID	7011691

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