

Product datasheet for RA101F

Protein G Streptococcus Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Protein G streptococcus protein, 1 mg
Species:	Streptococcus
Concentration:	lot specific
Purity:	This product was prepared from chromatographically pure Protein G.
Conjugation:	FITC
Buffer:	State: Lyophilized purified Ig fraction. Buffer System: 0.02M Potassium Phosphate, 0.15M Sodium Chloride, pH 7.2 with 10 mg/ml BSA (IgG and Protease free) as stabilizer and 0.01% (w/v) Sodium Azide as preservative. Label: Fluorescein isothiocyanate (FITC) (Molecular Weight 390 daltons) <u>Absorption/Emission Wavelength:</u> 495 nm/528 nm <u>Fluorochrome/Protein Ratio:</u> 0.1 moles FITC per mole of Protein G. Presentation Label: FITC
Reconstitution Method:	Restore with 0.5 ml of deionized water (or equivalent).
Preparation:	Lyophilized purified Ig fraction.
Applications:	Suitable for immunomicroscopy and flow cytometry or FACS analysis as well as other antibody based fluorescent assays. This product is designed for Immunofluorescence Microscopy, fluorescence based plate assays (FLISA) and Fluorescent Western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms. FLISA: 1/10,000-1/50,000. IF Microscopy: 1/1,000-1/5,000.
Protein Description:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Fluorescein and anti-Protein G. No reaction was observed against anti-Protein A.



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Storage:	<p>Store vial at 2-8°C prior to restoration. For extended storage reconstitute product with 50% glycerol instead of water and then aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing.</p> <p>Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 2-8°C as an undiluted liquid.</p> <p>Dilute only prior to immediate use.</p>
Stability:	<p>Shelf life: one year from despatch.</p>
Summary:	<p>Protein G is a bacterial protein derived from the cell wall of certain strains of b-hemolytic Streptococci. It binds with high affinity to the Fc portion of various classes and subclasses of immunoglobulins from a variety of species. Protein G binds to all IgG subclasses from human, mouse and rat species. It also binds to total IgG from guinea pig, rabbit, goat, cow, sheep, and horse.</p> <p>Protein G binds preferentially to the Fc portion of IgG, but unlike Protein A can also bind to the Fab region, making it useful for purification of F(ab') fragments of IgG. Due to its affinity for the Fc region of many mammalian immunoglobulins, protein G is considered a universal reagent in biochemistry and immunology.</p>