

Product datasheet for RA101

Protein G Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Protein G recombinant protein, 1 mg
Purity:	This product is chromatographically pure Protein G and shows predominantly a single band by SDS-PAGE.
Buffer:	Presentation State: Aff - Purified State: Lyophilized purified Ig fraction without preservatives.
Reconstitution Method:	Restore with 1 ml deionized water (or equivalent). Dilute only prior to immediate use.
Preparation:	Lyophilized purified Ig fraction without preservatives.
Applications:	Suitable for use as an antigen, as a Control or standard in assays, for conjugation and for most other immunological methods. This recombinant Protein G contains only IgG binding domains, ensuring maximum specific IgG binding.
Protein Description:	Protein G (recombinant, E. coli), unconjugated. Extinction Coefficient: 1% at 280 nm is 9.5 (E0.1% of 9.5). Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Protein G. No reaction was observed against anti-Protein A.
Note:	Approximately 5 mg of human IgG can be bound by 1 mg of Protein G. Optimal binding of Protein G to antibodies occurs at pH 5-6, with elution at pH 2.5-3.
Storage:	Store vial at 2-8°C prior to restoration. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing.
Stability:	Shelf life: one year from despatch.
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>



[View online »](#)