P-1006: Recombinant Protein A/G

Product Name:	Recombinant Protein A/G
Catalogue No:	P-1006
Source:	Escherichia coli
Molecular Weight:	Approximately 50.5 kDa, consisting of 7 IgG-binding domains EDABC (from Protein A domain)-C2C3 (from Protein G domain)
Biological Activity:	Binds to all IgG subclasses from various mammalian species.
Physical Appearance:	White lyophilized powder
Formulation:	Lyophilized with no additives
Endotoxin:	< 1EU/µg of growth factor as determined by LAL method
Reconstitution:	Reconstitute in sterile distilled water or saline.
Storage:	Store at -20°C after receiving. Upon Reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
Usage:	This product is for research use only. It is not approved for use in humans, animals, or in vitro diagnostic procedures.

Brief description:

Protein A/G is a genetically-engineered protein that consists of five Fc binding domains from protein A (EDABC) and two from protein G (C2C3), resulting in a final mass of 50.5 kDa by SDS-PAGE. The protein A portion is from Staphylococcus aureus and the protein G portion from Streptococcus. The protein A/G (EDABC-C2C3) is expressed in and purified from E. coli. Its binding capacity of Protein A/G is broader than either Protein A or Protein G. It binds to all human IgG subclasses, IgA, IgE, IgM and to a lesser extent IgD; however, it does not bind mouse IgA, IgM or murine serum albumin. In addition, its binding to IgG is less pH-dependent than Protein A, occurring well at pH 5 - 8. The extended Fc-binding properties of Protein A/G and lack of binding to serum albumin make it a popular tool in the investigation and purification of immunoglobulins.

(Updated March, 2013)