

# Biotinylated Protein G

<b>CATALOG #:</b>	6512-100	100 µg
	6512-1000	1 mg
<b>LOT #:</b>	_____	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 EU/mg of Protein G.	
<b>MOL. WEIGHT:</b>	26.1 kDa	
<b>FORM:</b>	Lyophilized with no additives	
<b>RECONSTITUTION:</b>	Reconstitute in water to a concentration of 5 mg/ml	
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freezing and thawing. Stable, as supplied, for at least 1 year.	

## SEQUENCE:

Amino acid 190-384 of the Streptococcus sp. Protein G with three Ig binding domains and 6x His-tag on N-terminus, and biotinylated with ~2 biotins per protein G molecule. Gene Bank Accession Number CAA27638.

## APPLICATIONS:

Protein G binds to the constant region of many species of immunoglobulin G. Protein G can be used to detect, quantify and purify IgG antibodies and antibody/antigen complexes. BioVision's Recombinant Protein G contains only IgG binding domains. The albumin-binding domain as well as cell wall and cell membrane binding domains have been removed to ensure the maximum specific IgG binding capacity. The 6-His-tag on N-terminus can be used for affinity purification or protein G detection using anti-His-tag antibodies.

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.

The Protein G-Biotin is using purified recombinant protein G biotinylated with ~2 biotins per protein G molecule.

## SPECIFICITY:

Under optimal conditions, 1 mg protein G will bind approximately 5 mg human IgG. Optimal binding of Protein G to antibodies occurs at pH 5.0 to 6.0 and can be eluted over a pH range of 2.5 to 3.0.

**FOR RESEARCH USE ONLY! NOT TO BE USED IN HUMANS.**

## FEATURED PRODUCTS:

### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Apoptosis siRNA Vectors

### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay Kit
- Cholesterol and HDL/LDL Quantification Kits
- Fatty Acid Assay Kit

### Molecular Biology & Reporter Assays

- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

### Growth Factors and Cytokines

### Quality Monoclonal and Polyclonal Antibodies