Recombinant Protein A/G

CATALOG #:	6502-1	1 mg
	6502-5	5 mg
	6502-25	25 mg
	6502-100	100 mg
	6502-1000	1 g

SOURCE: Recombinant expressed in *E. coli*

PURITY: >98% by SDS-PAGE and HPLC analyses
Endotoxin level is <0.1 EU/mg of Protein A/G.

MOL. WEIGHT: 59.7 kDa

THEORETICAL PI: 4.89

FORM: Lyophilized

RECONSTITUTION: Reconstitution in water to a concentration of 5 mg/ml gives a clear solution.

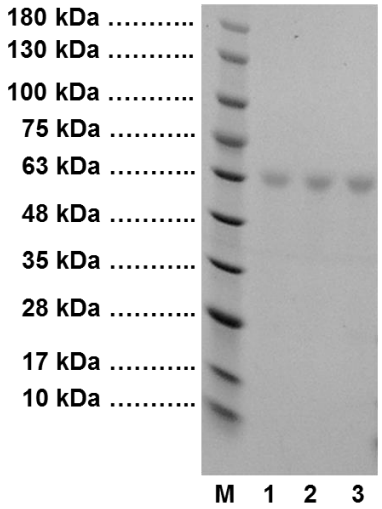
STORAGE CONDITIONS:
Store at -20°C. After reconstitution, aliquot and store at –20°C. Avoid repeated freezing and thawing. Stable, as supplied, for at least 1 year.

APPLICATIONS:
Protein A/G is a genetically engineered protein that combines the IgG binding profiles of both Protein A and Protein G. It is a gene fusion product. Recombinant fusion protein A/G contains 6x His-tag on the N-terminus, five Ig-binding regions of protein A fusion with three Ig-binding region of protein G. Cell wall binding region, albumin binding region and other non-specific binding regions have been eliminated from the fusion protein A/G to ensure the maximum specific IgG binding. 6x His-tag on N-terminus can be used for affinity purification or for protein A/G detection using anti-His-tag antibody.

Protein A/G binds to all IgG subclasses from various mammalian species, including all IgGs that bind to both Protein A and Protein G, making it the ideal choice for purification of all kinds of polyclonal or monoclonal IgG antibodies.

SPECIFICITY:
Under optimal conditions, 1 mg protein A/G will bind approximately 5 mg human IgG. Optimal binding of Protein A/G to antibodies occurs at pH 5.0 to 8.0 and can be eluted over a pH range of 2.5 to 3.0.

FOR RESEARCH USE ONLY! Not to be used on humans.



4-20% SDS-PAGE of Protein A/G:
M: Protein Marker
1: 10 µg Protein A/G
2: 15 µg Protein A/G
3: 20 µg Protein A/G

4-20% SDS-PAGE of Protein A/G: 10, 15 and 20 µg of Recombinant Protein A/G loaded in each lane under reducing conditions and stained with Coomassie Blue. Recombinant Protein A/G has a predicted MW of ~ 59.7 kDa.

RELATED PRODUCTS:

- Protein A (Liquid Form) **(Cat. No. 6500-10, -25, -100, -1000)**
- Protein A (Lyophilized) **(Cat. No. 6500B-10, -25, -100, -1000)**
- Protein A-Agarose **(Cat. No. 6526-1, -5, -25, -100)**
- Hi-Bind™ Protein A-Agarose **(Cat. No. 6520-1, -5, -25, -100)**
- Protein A-Sepharose **(Cat. No. 6501-1, -5, -25, -100)**
- Protein G **(Cat. No. 6510-1, -10, -100, -1000)**
- Hi-Bind™ Protein G-Agarose **(Cat. No. 6513-1, -5, -25, -100)**
- Protein G-Sepharose **(Cat. No. 6511-1, -5, -25, -100)**
- Protein A/G-Sepharose **(Cat. No. 6503-1, -5, -25, -100)**
- Protein A/G/L-Sepharose **(Cat. No. 6541-1, -5, -25, -100)**
- Protein A/G/L **(Cat. No. 6540-1, -25, -100, -1000)**