

Datasheet

Recombinant Protein G (PG-R)

Product Name	Recombinant Protein G
Protein Length	Protein fragment
Source	<i>E.coli</i>
Tested Applications	IgG Purification

Description:

Protein G is an immunoglobulin-binding protein isolated from Group G Streptococci that displays a high binding affinity for the Fc region of human and mouse IgG. The fragment available here is a single subunit protein that displays maximal antibody binding at an optimal ligand density whilst reducing binding of non-specific proteins (e.g. albumin).

Specifications:

Sequence: Supplied under NDA

Molecular Weight: 7 kDa

Form: Liquid, 10mg/ml in filter sterile PBS

Tag: His-tagged

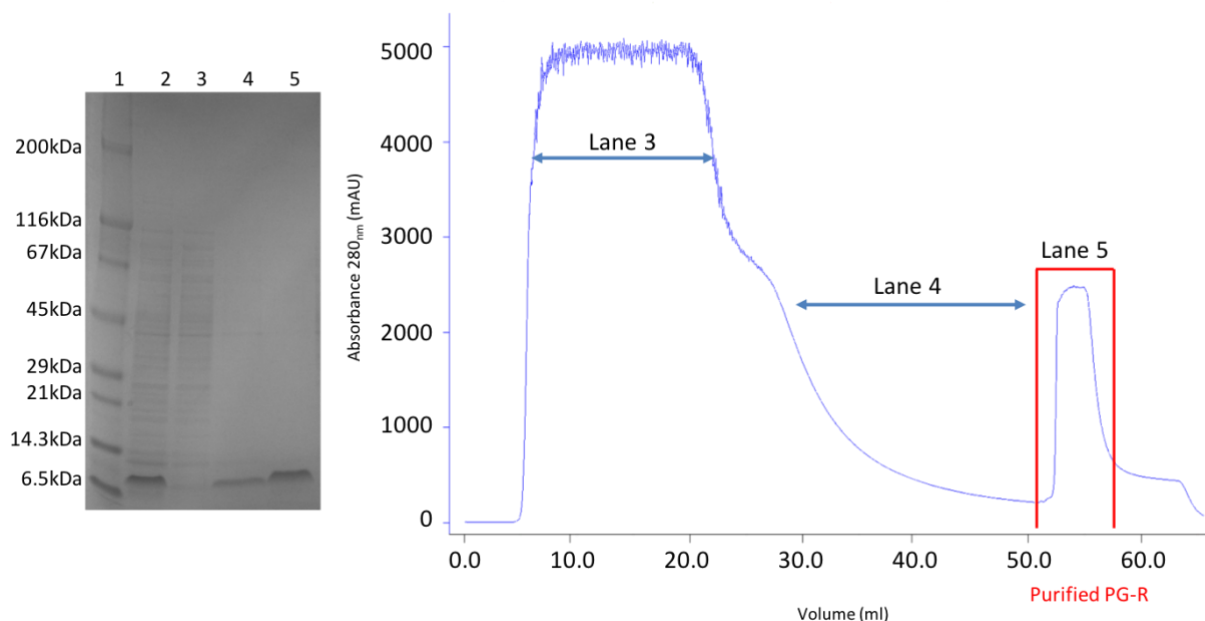
Storage: Store at +4°C short term (1-2 weeks). Store at -20°C. Avoid repeated freezing/thawing.

Regulatory/Restrictions: For research use only.

Ordering Information

Product code	Description	Price
PG-R-1mg	1mg purified Recombinant Protein G (10mg/ml)	£40.00
PG-R-10mg	10mg purified Recombinant Protein G (10mg/ml)	£130.00
PG-R-100mg	100mg purified Recombinant Protein G (10mg/ml)	£650.00
PG-R-1g	1g purified Recombinant Protein G (10mg/ml)	£4,000.00
PO-R	>1g - 1kg purified Recombinant Protein G	Available on request

Performance Data



PG-R purified using Protein Ark Ni-NTA HiFliQ column, analysed via SERVA 4-20%, PG-R detected at 7 kDa

Comparison between Protein Ark Ni-NTA resin and a competitor's Ni-NTA resin to purify Protein G. Protein G was purified from pET15B plasmids expressed in *E.coli*, strain BL21(DE3). The Ni-NTA resin sourced from Protein Ark yielded PG-R with greater purity than other resins.

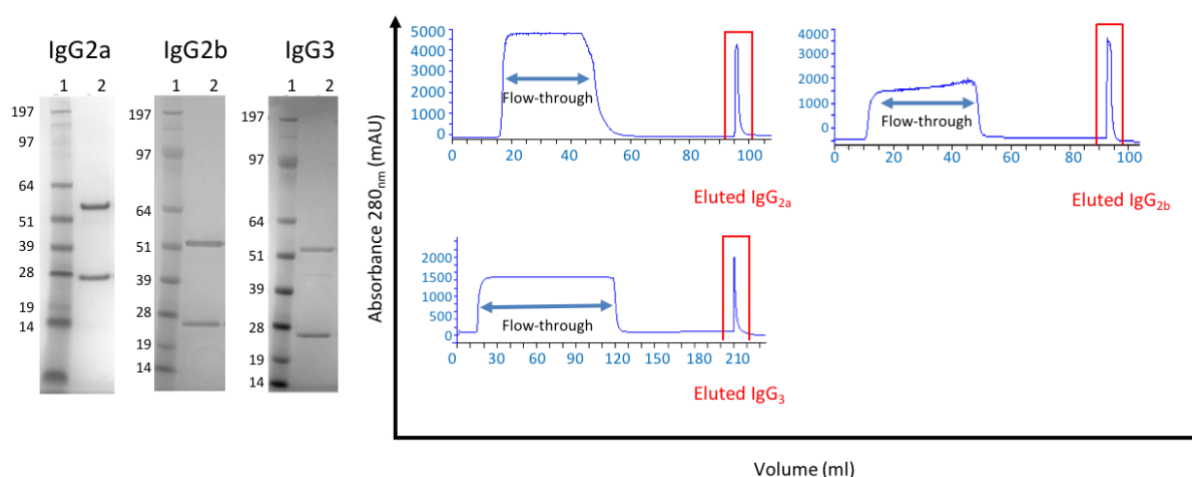
Lane 1: SERVA prestained SDS-PAGE Protein Marker 6.5 – 200kDa

Lane 2: Load

Lane 3: Flow-through

Lane 4: Wash (PBS pH 7.5)

Lane 5: Purified PG-R (eluted with 250mM imidazole pH 7.5)



Purification of various IgG subclasses using PG-R, analysed via NuPAGE

Murine hybridoma supernatants containing IgG_{2a,2b,3} monoclonal antibodies were purified using PG-R.

Lane 1: Molecular weight marker (SeeBluePlus2)

Lane 2: Purified IgG