



Easy Elution Protein G (ee-ProG)

Product Name: Easy Elution Protein G; ee-ProG

Catalog Number: NRPA30S

Packing details: 1mg, 10mg, 100mg, 500mg

Formulation: Lyophilized from 4 mM Na₂HPO₄, 1mM NaH₂PO₄, pH 7.4

Mol. Wt: 26.1 kDa

Theory pl: 5.50

Resources: Escherichia coli (E. coli)

Purity: ≥95% (SDS-PAGE)

Endotoxin: <5 EU/mg

Storage Condition: -20 °C

Storage Duration: 3 years

Description: :

Protein G is a protein in the cell wall of Streptococcus, which can specifically bind to the FC segment of immunoglobulin IgG. It can not only be combined with all IgG subclasses of human, mouse and rat, but also with IgG of guinea pig, rabbit, goat, cow, sheep and horse. Protein G has a wide range of applications. It can be used to separate and purify or remove IgG from serum and ascites, purify monoclonal antibody and isolate antigen antibody complex. The natural protein G is composed of several similar domains. Under neutral condition, it has a high affinity with Fc fragment of IgG. With the decrease of pH, the affinity gradually weakens. However, it still needs a very low pH to separate IgG from protein G. for example, it needs ph2.5-3.5 to elute IgG from protein G medium, and it is easy to aggregate and inactivate some antibodies.

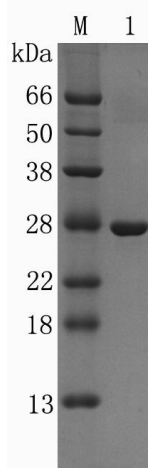
EE protein optimizes the domain of natural protein G, maintains the affinity in neutral condition, greatly reduces the affinity in acid environment, makes the antibody easier to dissociate and elute, and the general antibody can dissociate at ph3.5-5.0.

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Lane 1: ee-ProG

Nots:

It is recommended to prepare 10 mg / ml solution with sterile water, and use it now.