

Product Information

HUMAN IgG1, KAPPA Purified Myeloma Protein

Product Number **I 5154**

Product Description

Human myeloma IgG1, kappa is purified from human plasma by fractionation, ion-exchange and affinity chromatography procedures.¹⁻³ The purified immunoglobulin represents a single subclass and light chain type.

The purified IgG1, kappa may be used as an immunoglobulin calibrator, reference antigen, blocking agent or coating protein in a variety of immunoassays including ELISA, dot-blot immunobinding, Western immunoblotting, immunodiffusion, immunoelectrophoresis, hemagglutination, and cell-binding assays.⁴⁻⁶

Reagent

Human myeloma IgG1, kappa is supplied as a frozen liquid in 20 mM tris buffered saline, pH 8.0. No preservatives are added. Each vial contains at least 1 mg of immunoglobulin.

Protein concentration is measured using $E^{0.1\%} = 1.4$ at 280 nm.⁷

Purity of immunoglobulin is greater than 95% as determined by reduced SDS-PAGE. Identity of IgG1, kappa is verified by subclass monoclonal antibodies and type specific polyclonal antibodies in immunoelectrophoresis and indirect ELISA assays.

Precautions and Disclaimer

BIOHAZARD: Handle as if capable of transmitting infectious agents. Refer to MSDS.

Material tested and found negative for antibody to HIV and HbsAG.

Storage/Stability

Store in aliquots at -20°C . Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

References

1. McKinney, M., et al., J. Immunol. Methods, **96**, 271 (1987).
2. Bird, P., et al., J. Immunol. Methods, **71**, 97 (1984).
3. Tusch, D., et al., BioChromatography, **5**, 30 (1990).
4. Haaijman, J., et al., Immunology Today, **5**, 56 (1984).
5. Lew, A., J. Immunol. Methods, **72**, 171 (1984).
6. Steward, M., et al., J. Immunol. Methods, **78**, 173 (1985).
7. Kronick, M., et al., Clin. Chem., **29**, 1582 (1983).

kaa/lpg 12/05

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.