

Datasheet

Human IgG4 Fc Protein, Tag Free

Catalog # AMS.IG4-H5205-1mg

For Research Use Only

Description

Source Human IgG4 Fc Protein, Tag Free (Human IgG4 Fc, Tag Free) Glu 99 - Lys 327 (Accession # P01861) was produced in human 293 cells (HEK293) at Amsbio

Predicted N-terminus Glu 99

Protein Structure

IgG4 Fc (Glu 99 - Lys 327)
P01861

Molecular Characterization Human IgG4 Fc, Tag Free contains no "tag", and has a calculated MW of 25.8 kDa. The predicted N-terminus is Glu 99. As a result of glycosylation, the reducing (R) protein migrates as 33-35 kDa, and the non-reducing (NR) protein migrates as 50-55 kDa in SDS-PAGE .

Endotoxin Less than 1.0 EU per µg by the LAL method.

Purity >95% as determined by SDS-PAGE.

Formulation and Storage

Formulation Lyophilized from 0.22 µm filtered solution in 50 mM tris, 100 mM glycine, pH7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions. For best performance, we strongly recommend you to follow the reconstitution protocol provided in the COA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles.

No activity loss was observed after storage at:

- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Background

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Immunoglobulin G4 (IgG4) is a member of many immunoglobulin G developed and secreted by effective B cells. In wake of cutting by pepsin, IgG is divided into two F(ab)s with one antigen binding site and a high conserved Fc segment. The Fc segment bears a highly conserved N-glycosylation site. Ig gamma-4 chain Fc region contains two constant regions of IgG4 H chain (CH2, CH3).

Please contact us at info@amsbio.com, if you have any questions about this product.

References

- (1) Frangione B., et al., 1969, Nature 221:145-148.
- (2) Kristiansen T.Z., et al., 2004, Mol. Cell. Proteomics 3:715-728.
- (3) Chen R., et al., 2009, J. Proteome Res. 8:651-661.



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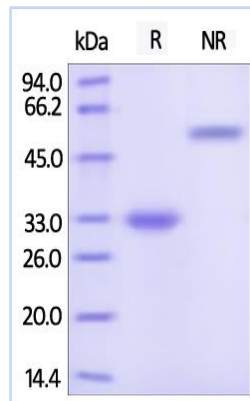
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Assay Data

SDS-PAGE Data

Human IgG4 Fc, Tag Free on SDS-PAGE under reducing (R) and no-reducing (NR) conditions. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



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