Human IgG1 Fc Protein, Tag Free

Catalog # FCC-H5214

For Research Use Only

Description

Source	Human IgG1 Fc, Tag Free (FCC-H5214) is expressed from human 293 cells (HEK293). It contains AA Glu 99 - Lys 330 (Accession # AAC82527.1). Predicted N-terminus: Glu 99
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Protein Structure	IgG Fc(Glu 99 - Lys 330) AAC82527.1
Molecular Characterization	This protein carries no "tag". The protein has a calculated MW of 26 kDa. The protein migrates as 35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Bioactivity	Measured by its binding ability in a functional ELISA. Immobilized Human CD64, His Tag (Cat. No. FCA-H52H2) at 10μg/mL (100 μL/well) can bind Human IgG Fc, Tag Free (Cat. No. FCC-H5214) with a linear range of 7-41 ng/mL (QC tested).

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant 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℃ for 12 months in lyophilized state; • -70℃ for 3 months under sterile conditions after reconstitution.

Background

Background	Crystallizable fragments composed of the carboxy-terminal halves of both IMMUNOGLOBULIN HEAVY CHAINS linked to each other by disulfide bonds. Fc fragments contain the carboxy-terminal parts of the heavy chain constant regions that are responsible for the effector functions of an immunoglobulin (COMPLEMENT fixation, binding to the cell membrane via FC RECEPTORS, and placental transport). IgG1 Fc was reported has a novel role as a potential anti-inflammatory drug for treatment of human autoimmune diseases.
References	(1) Medinger M, Tzankov A,et al.(2010), J Clin Immunol. 30 Suppl 1:S9-14.

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

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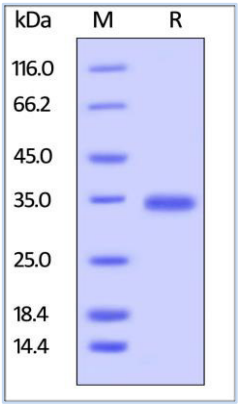
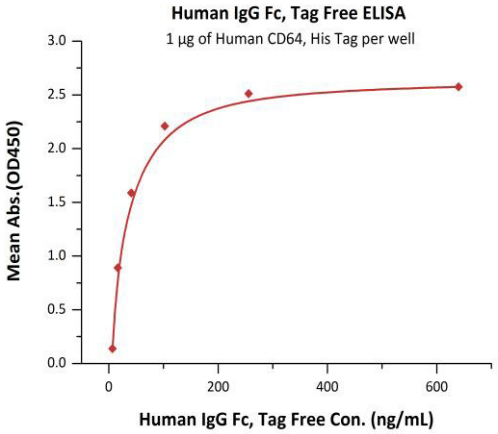
Assay Data

SDS-PAGE Data



Human IgG1 Fc, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity Data



Immobilized Human CD64, His Tag (Cat. No. FCA-H52H2) at 10μg/mL (100 μL/well) can bind Human IgG Fc, Tag Free (Cat. No. FCC-H5214) with a linear range of 7-41 ng/mL (QC tested).

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