

Active Recombinant Human IgG1Fc Protein, His-Avi-tagged, Biotinylated

Cat. No. IgG1Fc-11H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human IgG1 Fc, Avitag, His Tag is expressed from human HEK293 cells. It contains AA Pro 100 - Lys 330 (Accession # P01857-1 (C103S)).
Species	Human
Source	HEK293
ProteinLength	Pro 100 - Lys 330 (C103S)
Description	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.
Form	Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA against immobilized Recombinant Protein A (0.2 µg/well). The linear range is 0.8-12.5 ng/mL.
Molecular Mass	The protein has a calculated MW of 28.8 kDa. As a result of glycosylation, the protein

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	migrates as 36 kDa under reducing (R) condition, and 60-66 kDa under non-reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	IGHG1 immunoglobulin heavy constant gamma 1 (G1m marker) [Homo sapiens (human)]
Official Symbol	IgG1Fc
Synonyms	IgG1
Gene ID	3500
MIM	147100

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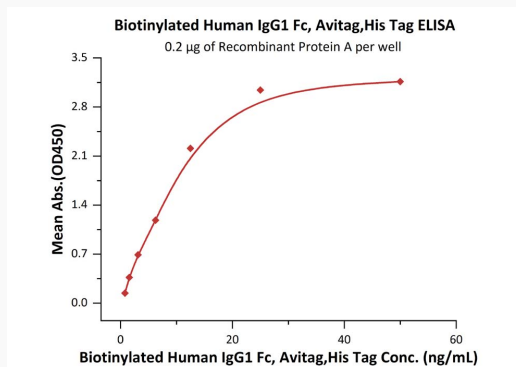
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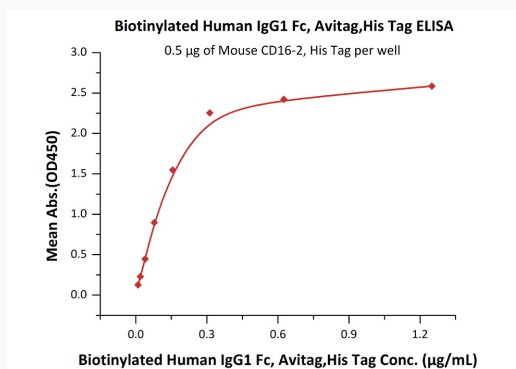
UniProt ID

P01857

**Bioactivity-ELISA of
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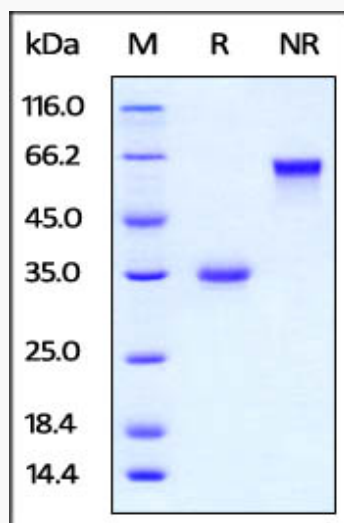


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SDS-PAGE of
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