Active Recombinant Human IgG1 Fc Chimera Protein, Alexa Fluor 488-Labeled

Cat. No. IgG1-67H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IgG1 (Pro100-Lys330, Leu117Ala, Leu118Glu, Gly120Ala, Thr276Ala) Fc Chimera Alexa Fluor 488 Protein was expressed in Mouse myeloma cell line.
Species	Human
Source	NS0
ProteinLength	100-330 a.a.
Description	Constant region of immunoglobulin heavy chains. Immunoglobulins, also known as antibodies, are membrane-bound or secreted glycoproteins produced by B lymphocytes. In the recognition phase of humoral immunity, the membrane-bound immunoglobulins serve as receptors which, upon binding of a specific antigen, trigger the clonal expansion and differentiation of B lymphocytes into immunoglobulins-secreting plasma cells. Secreted immunoglobulins mediate the effector phase of humoral immunity, which results in the elimination of bound antigens. The antigen binding site is formed by the variable domain of one heavy chain, together with that of its associated light chain. Thus, each immunoglobulin has two antigen binding sites with remarkable affinity for a particular antigen. The variable domains are assembled by a process called V-(D)-J rearrangement and can then be subjected to somatic hypermutations which, after exposure to antigen and selection, allow affinity maturation for a particular antigen. Mediates IgG effector functions on monocytes

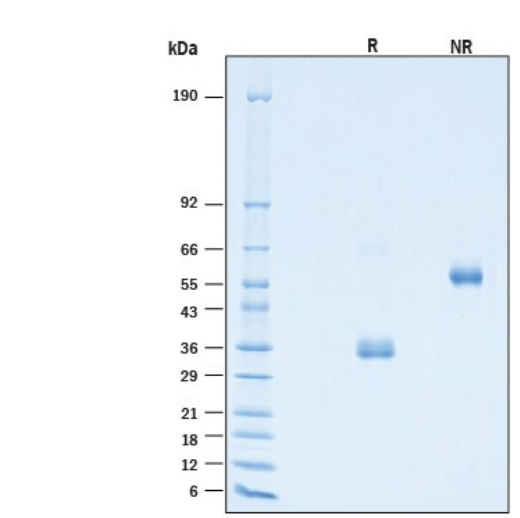
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	triggering ADCC of virus-infected cells
Form	Dimer Labeled with Alexa Fluor 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Bio-activity	Measured by flow cytometry for its ability to bind anti-human IgG1 Fc Antibody conjugated beads. The concentration of Recombinant Human IgG1Fc Chimera Alexa Fluor 647 that produces 50% of the binding response is 10.0-100 ng/mL.
Molecular Mass	Predicted Molecular Mass: 26.6 kDa SDS-PAGE: 30-40 kDa, under reducing conditions.
N-terminal Sequence Analysis	Ile
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Storage	Protect from light. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after opening. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in PBS with BSA as a carrier protein.
Shipping	The product is shipped with dry ice or equivalent.

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Conjugation	Alexa Fluor 488

GENE INFORMATION

Official Symbol	IgG1
Synonyms	Immunoglobulin G1; IgG1; Igh-4; RGD1359539; VH7183
UniProt ID	P01857
SDS-PAGE	 2 μg/lane of Recombinant Human IgG1 Fc Chimera Alexa Fluor 488 Protein was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie Blue staining, showing bands at 30-40 kDa and 60-80 kDa, respectively.

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