Active Recombinant Cynomolgus Monkey IgG1 Fc protein

Cat. No. IgG1 Fc-228C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus Monkey IgG1 Fc(Pro110-Lys333) was expressed in HEK293.
Species	Cynomolgus
Source	HEK293
ProteinLength	110-333 a.a.
Description	Immunoglobulin G (IgG), is one of the most abundant proteins in serum with normal levels between 8-17 mg/mL in human adult blood. It is composed of two heavy chains and two light chains. The variability of the IgG pool is generated by somatic recombination in B cells that have been exposed to foreign material. IgA, IgG, IgM, IgD, and IgD classes of human immunoglobulin (as well as the isotypes IgG1, IgG2a, IgG2b, and IgG3) are generated by class switch recombination within the heavy chain locus. Recombination within the light chain locus selects either kappa or lambda chains. Antibodies are secreted by plasma cells of the B lymphocyte lineage and constitute the humoral component of adaptive immunity. Their variable regions bind to foreign antigens, while their Fc regions are recognized by Fc receptors expressed on macrophages, monocytes, neutrophils, NK cells, and CD8+ cytotoxic T cells. Phagocyte uptake of antibody-antigen complexes and antibody-opsonized pathogens is critical for clearance of the foreign material and immune homeostasis.
Predicted N Terminal	Pro110, and Ala-Leu-Ala-Pro110

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilized from a 0.2 μm filtered solution in PBS.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Cynomolgus Monkey IgG1 Fc is immobilized at 0.15 μg/mL (100 μl/well), the concentration of Recombinant Human Fc gamma RI/CD64 that produces 50% of the optimal binding response is 0.2-1.2 ng/mL.
Molecular Mass	Predicted Molecular Mass: 25 kDa SDS-PAGE: 30-40 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 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	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 1 mg/mL in PBS.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA