

Recombinant Human IgG2 Fc (223AA)

Catalog #	EPT287			
Expression Host	Human Cells			
DESCRIPTION	Recombinant Human Ig Gamma-2 Chain C Region is			
	produced by our Mammalian expression system and			
	the	target	gene	encoding
	Val104-Lys326(Val161Met,Ser257Ala) is expressed.			
Accession	P01859			
Synonyms	Ig gamma-2 chain C region,IgG2 Fc			
Mol Mass	25.1 KDa			
AP Mol Mass	32 KDa, reducing conditions			
Purity	Greater than 95% as determined by reducing			
	SDS-PAGE.			
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL			
	test.			
FORMULATION	Lyophilized from a 0.2 μ m filtered solution of 20mM			
	PB, 150mM NaCl, pH 7.4.			
RECONSTITUTION	Always centrifuge tubes before opening.Do not mix by			
	vortex or pip	petting.		



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It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING The product is shipped at ambient temperature.Upon receipt, store it immediately at the temperature listed below.

STORAGELyophilized protein should be stored at < -20 ° C,
though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C
for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

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BACKGROUND As a monomeric immunoglobulin that is predominately involved in the secondary antibody response and the only isotype that can pass through the human placenta, Immunoglobulin G (IgG) is synthesized and secreted by plasma B cells, and constitutes 75% of serum immunoglobulins in humans. IgG antibodies protect the body against the pathogens by agglutination and immobilization,



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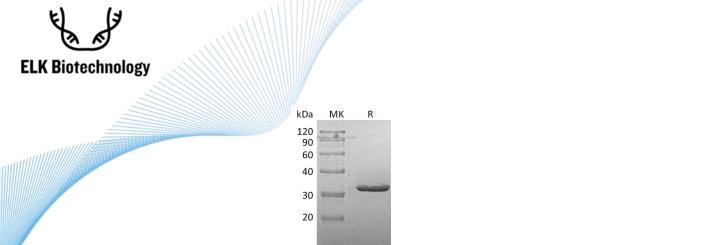
complement activation, toxin neutralization, as well as the antibody-dependent cell-mediated cytotoxicity (ADCC). IgG tetramer contains two heavy chains (50 kDa) and two light chains (25 kDa) linked by disulfide bonds, that is the two identical halves form the Y-like shape. IgG is digested by pepsin proteolysis into Fab fragment (antigen-binding fragment) and Fc fragment ("crystallizable" fragment). IgG1 is most abundant in serum among the four IgG subclasses (IgG1, 2, 3 and 4) and binds to Fc receptors (FcyR) on phagocytic cells with high affinity. Fc fragment is demonstrated to mediate phagocytosis, trigger inflammation, and target Ig to particular tissues. Protein G or Protein A on surface the of certain Staphylococcal and Streptococcal strains specifically binds with the Fc region of IgGs, and has numerous applications in biotechnology as a reagent for affinity purification. Recombinant IgG Fc Region is suggested to represent a potential anti-inflammatory drug for treatment of human autoimmune diseases.

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14

SDS-PAGE



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