

Product datasheet for TP728121

Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant Human IgG4 Fc (Pro104-Lys327, Leu325Pro)

Species: Human

Expression cDNA Clone

or AA Sequence:

Pro104-Lys327(Leu325Pro)

Buffer: Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Recombinant Human Ig gamma-4 chain C region is produced by our Mammalian expression Note:

system and the target gene encoding Pro104-Lys327(Leu325Pro) is expressed.

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 Storage:

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.

12 months from date of despatch Stability:

UniProt ID: P01861

Synonyms: Ig gamma-4 chain C region, IgG4 Fc

Summary: 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, 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 (Fc[3R) 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 the surface 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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