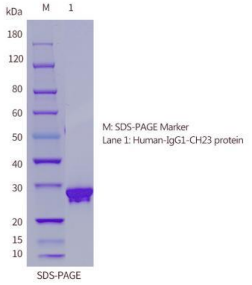
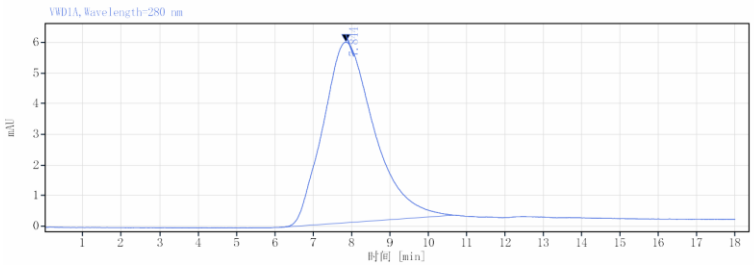
Human IgG1 CH23 Protein

Cat. No: DTP01

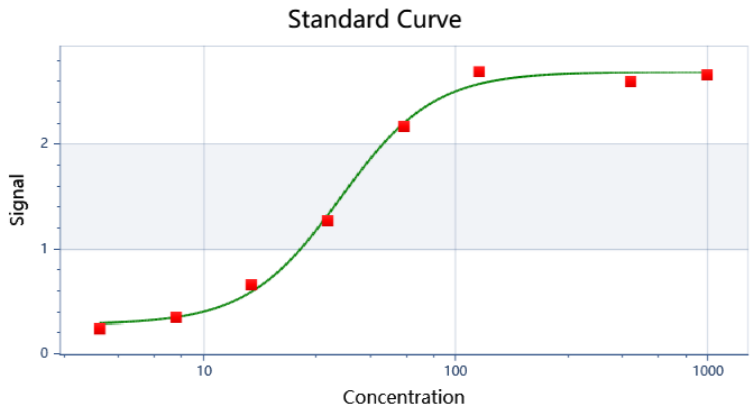
产品信息

别称	**IgG1 Fc Protein, Human; Ighg1 Protein, Human**
纯度	≥ 95% as determined by SDS-PAGE&HPLC.
表达宿主	293F Cells
种属	Human
分子量	The recombinant human IgG1 Fc consists of 232 amino acids and has a predicted molecular mass of 25 kDa. As a result of glycosylation, the apparent molecular mass of rhFc is approximately 28 kDa in SDS-PAGE under reducing conditions.
缓冲液	PBS, pH 7.4.
运输方式	Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
稳定性 & 储存条件	Samples are stable for up to twelve months from date of receipt at -20℃ to -80℃. Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
SDS-PAGE	
HPLC	

信号: VWD1A,Wavelength=280 nm

保留时间 [min]	类型	峰宽 [min]	峰面积	峰高	峰面积%	名称
7.844	BB	4.51	546.96	5.91	100.00	Human-IgG1-CH23

ELISA



背景信息

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 antibody-dependent cell-mediated cytotoxicity (ADCC). IgG tetramer contains two heavy chains (5 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 (FcγR) 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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