

IgG4 Fc Protein, Human (HEK293)

Cat. No.:	HY-P70771
Synonyms:	Ig gamma-4 chain C region,IgG4 Fc
Species:	Human
Source:	HEK293
Accession:	P01861-1 (E99-G326)
Gene ID:	3503
Molecular Weight:	Approximately 32.0 kDa

PROPERTIES

AA Sequence	<pre> E S K Y G P P C P S C P A P E F L G G P S V F L F P P K P K D T L M I S R T P E V T C V V V D V S Q E D P E V Q F N W Y V D G V E V H N A K T K P R E E Q F N S T Y R V V S V L T V L H Q D W L N G K E Y K C K V S N K G L P S S I E K T I S K A K G Q P R E P Q V Y T L P P S Q E E M T K N Q V S L T C L V K G F Y P S D I A V E W E S N G Q P E N N Y K T T P P V L D S D G S F F L Y S R L T V D K S R W Q E G N V F S C S V M H E A L H N H Y T Q K S L S L S L G </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The IgG4 Fc protein represents the constant region of immunoglobulin heavy chains, integral components of the humoral immune system. Immunoglobulins, or antibodies, are glycoproteins produced by B lymphocytes. In humoral immunity, membrane-bound immunoglobulins act as receptors, initiating the clonal expansion and differentiation of B lymphocytes into plasma cells upon antigen binding. The secreted immunoglobulins then execute the effector phase, leading to the elimination of bound antigens. Each immunoglobulin possesses two antigen-binding sites formed by the variable domains of one heavy chain and its associated light chain. These variable domains undergo V-(D)-J rearrangement and somatic</p>
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hypermutations, enabling affinity maturation for specific antigens. Structurally, immunoglobulins consist of two identical heavy chains and two identical light chains linked by disulfide bonds. This intricate molecular architecture underscores their crucial role in immune recognition and response.

Caution: Product has not been fully validated for medical applications. For research use only.

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