

## IgG2 Fc Protein, Human (228a.a, V161M, S257A, HEK293)

<b>Cat. No.:</b>	HY-P72605
<b>Synonyms:</b>	Immunoglobulin heavy constant gamma 2; IGHG2; Ig gamma-2 chain C region; IgG2 Fc
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P01859 (E99-K326, V161M, S257A)
<b>Gene ID:</b>	3501
<b>Molecular Weight:</b>	Approximately 32 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> ERKCCVECPP    CPAPPVAGPS    VFLFPPKPKD    TLMISRTPEV TCVVVDVSHED  DPEVQFNWYV   DGM EVHNAKT   KPREEQFNST FRVVSVLTVV    HQDWLNGKEY   KCKVSNKGLP    APIEKTISKI KGGQPREPQVY   TLPPSREEMT   KNQVSLTCLV    KGFYPSDIAV EWE SNGQPEN   NYKTTTPMLD   SDGSFFLYSK    LTVDKSRWQQ GNVFSCSVMH    EALHNHYTQK   SLSLSPGK           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The constant region of immunoglobulin heavy chains, referred to as antibodies, comprises membrane-bound or secreted glycoproteins synthesized by B lymphocytes. In the recognition phase of humoral immunity, these membrane-bound immunoglobulins act as receptors, triggering clonal expansion and differentiation of B lymphocytes into immunoglobulin-secreting plasma cells upon binding specific antigens. The effector phase, mediated by secreted immunoglobulins, leads to the elimination of bound antigens. The antigen binding site is shaped by the variable domain of one heavy chain, along with that of its associated light chain, resulting in each immunoglobulin possessing two antigen binding sites with remarkable</p>
-------------------	--

---

affinity for a particular antigen. Variable domains undergo V-(D)-J rearrangement and subsequent somatic hypermutations, facilitating affinity maturation for a specific antigen following exposure and selection. Immunoglobulins consist of two identical heavy chains and two identical light chains, interconnected by disulfide linkages.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA