

## IgG1 Protein, Mouse (HEK293, C102S)

Cat. No.:	HY-P73901
Synonyms:	Immunoglobulin heavy constant gamma 1; IGHG1
Species:	Mouse
Source:	HEK293
Accession:	P01868 (V98-K324, C102S)
Gene ID:	16017
Molecular Weight:	Approximately 32 kDa

### PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

### DESCRIPTION

#### Background

Ig gamma-1 chain C region secreted form (IgG1) is the most abundant Immunoglobulin G (IgG) subclass in human sera and is important for mediating antibody responses against viral pathogens. It does so by binding to soluble proteins and membrane protein antigens via its variable domain and concomitantly activating effector mechanisms of the innate immune system. IgG1 enables antigen binding activity and immunoglobulin receptor binding activity. It acts upstream of or within several processes, including antibody-dependent cellular cytotoxicity, phagocytosis, and positive regulation of immune response. IgG1 can effectively bind to C1q causing complement-dependent cytotoxicity (CDC) and can bind to each of the different Fc receptors resulting in antibody-dependent cell-mediated cytotoxicity (ADCC)<sup>[1]</sup>.

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

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