

Recombinant Mouse Immunoglobulin Heavy Chain (gamma polypeptide), His-tagged

Cat. No. Ighg-5590M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Ighgprotein, fused to His-tag at C-terminus, was expressed in Hi-5 cell using baculovirus expression system and purified by using conventional chromatography.
Species	Mouse
Source	Insect Cells
Description	Immunoglobulin G (IgG) is antibody molecules. Each Ighg is composed of four peptide chains—two heavy chains γ and two light chains. Each Ighg has two antigen binding sites. Ighg antibodies are involved in predominantly the secondary immune response. The presence of specific Ighg, in general, corresponds to maturation of the antibody response. It also plays an important role in Antibody-dependent cell-mediated cytotoxicity (ADCC) and Intracellular antibody-mediated proteolysis, in which it binds to TRIM21 (the receptor with greatest affinity to IgG in humans) in order to direct marked virions to the proteasome in the cytosol.
Form	Liquid. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Molecular Weight	27.5kDa (242aa)
Purity	> 90% by SDS-PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Sequences of aminoacids	ADPEPRGPTI KPCPPCKCPA PNLLGGPSVF IFPPKIKDVLMSLSPIVTC VVVDVSEDDP DVQISWVNN VEVHTAQTQT HREDYNSTLR VVSALPIQHQ DWMSGKEFKCKVNNKDL PAP IERTISKPKG SVRAPQVYVL PPPEEEMTKK QVTLTCTMVT D FMPEDIYVEW TNNGKTELNYKNTEPVLDS GSYFMYSKLR VEKKNWVERN SYSCSVVHEG LHNHHTTKSF SRTPGKHHHH HH
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	Ighg Immunoglobulin heavychain (gamma polypeptide) [Mus musculus]
Official Symbol	Ighg
Synonyms	Ighg; Immunoglobulin heavy chain (gammapolypeptide); IGHG2A; AU044919
Gene ID	380794
mRNA Refseq	XM_001472541
Chromosome Location	12 F2; 12
Pathway	Adaptive Immune System; Classical antibody-mediated complement activation; Complement cascade; Creation of C4 and C2 activators; Immune System; Immunoregulatory interactions between a Lymphoid and anon-Lymphoid cell; Initial triggering of complement; Innate Immune System