

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	ImmunoglobulinG (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 (pH8.0) 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 DVQISWVFN VEVHTAQTQT HREDYNSTLR VVSALPIQH
 DWMSGKEFKCKVNNKDL PAP IERTISKPKG SVRAPQVYVL PPPEEEMTKK
 QVTLCMVT 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-mediatedcomplement 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

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