

Recombinant mouse IgG2A protein

Catalog Number: ATGP1513

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

98-330aa

UniProt No.

P01863

NCBI Accession No.

CAC20702

Alternative Names

Immunoglobulin heavy chain constant region gamma 2a, Immunoglobulin G

PRODUCT SPECIFICATION

Molecular Weight

26.6 kDa (236aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0)

Purity

> 90% by SDS-PAGE

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Immunoglobulin G (IgG) are antibody molecules. Each IgG is composed of four peptide chains (two heavy chains gamma and two light chains). Each IgG has two antigen binding sites. IgG antibodies are involved in predominantly the secondary immune response. The presence of specific IgG, in general, corresponds to maturation of the antibody response. It 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. Recombinant mouse

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IgG protein, was expressed in Hi-5 cell using baculovirus expression system and purified by using conventional chromatography techniques.

Amino acid Sequence

ADPEPRGPTI KCPPCKCPA PNLLGGPSVF IFPPKIKDVL MISLSPIVTC VVLDVSEDDP DVQISWVFN VEVHTAQTQT
HREDYNSTLR VVSALPIQHQ DWMSGKEFKC KVNNKDL PAP IERTISKPKG SVRAPQVYVL PPPEEEMTKK QVTLTCM VTD
FMPEDIYVEW TNNGKTELNY KNTEPVLDS D GSYFMYSKLR VEKKNWVERN SYSCSVVHEG LHNHHTTKSF SRTPGK

General References

Mallery DL., et al. (2010) Proc Natl Acad Sci. 16(46):19958-90.

Bruggemann M., et al. (1989) J Immunol. 1(9):3145-50.

DATA

SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

