

Recombinant human Immunoglobulin J chain/IGJ protein

Catalog Number: ATGP2039

PRODUCT INFORMATION

Expression system

E.coli

Domain

23-159aa

UniProt No.

P01591

NCBI Accession No.

NP_653247.1

Alternative Names

Joining chain of multimeric IgA and IgM, Immunoglobulin J chain, IgJ chain, J Chain, IGCJ, JCH, IGJ, JCHAIN

PRODUCT SPECIFICATION

Molecular Weight

18 kDa (160aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

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 J chain, also known as IGJ, serves to link two monomer units of either IgM or IgA. In the case of IgM, the J chain-joined dimer is a nucleating unit for the IgM pentamer, and in the case of IgA it induces larger polymers. It also helps to bind these immunoglobulins to secretory component. Recombinant human IGJ protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>QEDERIV LVDNKCKCAR ITSRIIRSSE DPNEDIVERN IRIIVPLNNR ENISDPTSPL
RTRFVYHLSD LCKKCDPTEV ELDNQIVTAT QSNICDEDSA TETCYTYDRN KCYTAVVPLV YGGETKMOVET ALTPDACYPD

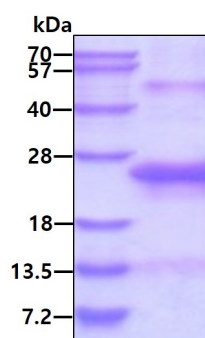
General References

Liu T., et al. (2005) J. Proteome Res. 4:2070-2080

Ramachandran P., et al. (2006) J. Proteome Res. 5:1493-1503

DATA

SDS-PAGE



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