

Recombinant mouse FcRn/FCGRT protein

Catalog Number: ATGP3485

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-297aa

UniProt No.

Q61559

NCBI Accession No.

NP_034319.2

Alternative Names

IgG receptor FcRn large subunit p51, Fcgrt, FcRn, Fc gamma receptor and transporter, FcgammaRn, Transmembrane alpha chain of the neonatal receptor, Neonatal Fc receptor, FCRN alpha-chai

PRODUCT SPECIFICATION

Molecular Weight

32.1 kDa (285aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

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

Fcgrt, as known as IgG receptor FcRn large subunit p51, is a transmembrane glycoprotein with structural homology to MHC class 1 proteins. This protein is widely expressed in endothelial and epithelial cells and plays an important role in IgG homeostasis. Also, it is expressed in neutrophils and myeloid antigen presenting cells. It

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can enhance IgG-mediated phagocytosis and antigen presentation by hese cells, but it promotes the degradation of opsonizing IgG rather than returning it to the circulation. Recombinant mouse Fcgrt, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

<ADP>SETRPPL MYHLTAVSNP STGLPSFWAT GWLGPQQYLT YNSLRQEADP CGAWMWENQV SWYWEKETTD
LKSKEQLFLE ALKTLEKILN GTYTLQGLLG CELASDNSSV PTAVFALNGE EFMKFNPRIG NWTGEWPETE IVANLWMKQP
DAARKESEFL LNSCPERRLLG HLERGRRNLE WKEPPSMRLK ARPGNSGSSV LTCAAFSFYP PELKFRFLRN GLASGSGNCS
TGPNGDGSFH AWSLLEVKRG DEHHYQCQVE HEGLAQPLTV DLDSSARSS<H HHHHH>

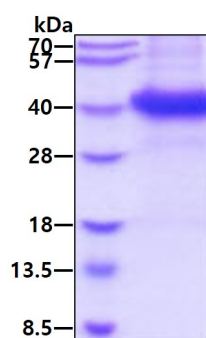
General References

Baker K., et al, (2013) Immunity 39:1095-1107.

Paveglio S., et al, (2012) Clin. Exp. Allergy 42:1791-1800.

DATA

SDS-PAGE



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