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 rloe in IgG homeostasis. Also, it is expessed in neutrophils and myeloid antigen presenting cells. It

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can enhance IgG-meditated phagocytosis and antigen presentation by heses 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

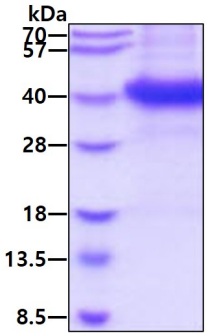
<ADP>SETRPPL MYHLTAVSNP STGLPSFWAT GWLGPQQYLT YNSLRQEADP CGAWMWENQV SWYWEKETTD LKSKEQLFLE ALKTLEKILN GTYTLQGLLG CELASDNSSV PTAVFALNGE EFMKFNPRIG NWTGEWPETE IVANLWMKQP DAARKESEFL LNSCPERLLG HLERGRRNLE WKEPPSMRLK ARPGNSGSSV LTCAAFSFYP PELKFRFLRN GLASGSGNCS TGPNGDGSFH AWSLLEVKRG DEHHYQCQVE HEGLAQPLTV DLDSSARSS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