

# Recombinant human Fc gamma RIIIA/CD16a protein

Catalog Number: ATGP3449

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

18-208aa

### UniProt No.

P08637

### NCBI Accession No.

NP\_001121065.1

### Alternative Names

Low affinity immunoglobulin gamma Fc region receptor III-A, CD16, CD16A, FCG3, FCGR3, FCGRIII, FCR-10, FCRIII, FCRIIIA, IGFR3, IMD20

## PRODUCT SPECIFICATION

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### Molecular Weight

22.8 kDa (200aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

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

### Purity

> 95% 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

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### Description

FCGR3A, also known as low affinity immunoglobulin gamma Fc region receptor III-A, is a multifunctional, low or intermediate affinity receptor, which belongs to the immunoglobulin superfamily. It is expressed on human NK cells as an integral membrane glycoprotein anchored through a transmembrane peptide. It mediates antibody-

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dependent cellular cytotoxicity (ADCC) and other antibody-dependent responses, such as phagocytosis. Recombinant human FCGR3A, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADP>MRTEDLP KAVVFLEPQW YRVLEKDSVT LKCQGAYSPE DNSTQWFHNE SLISSQASSY FIDAATVDDS  
GEYRCQTNLS TLSDPVQLEV HIGWLLLQAP RWVFKEEDPI HLRCHSWKNT ALHKVTYLQN GKGRKYFHHN SDFYIPKATL  
KDSGSYFCRG LFGSKNVSE TVNITITQGL AVSTISSFFP PGYQ<HHHHHH>

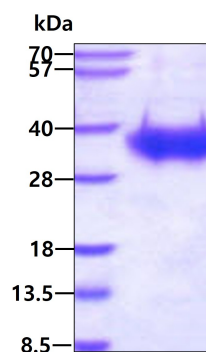
## General References

Ravetch JV., et al. (1989) J Exp Med. 170:481-497.

Ferrara C., et al. (2011) Proc Natl Acad Sci U S A. 108:12669-12674.

## DATA

### SDS-PAGE



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