

Recombinant human CD16a/FCGR3A protein

Catalog Number: ATGP4102

PRODUCT INFORMATION

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, low affinity immunoglobulin gamma Fc region receptor III-A isoform c, IgG Fc receptor III-A, CD16-II, CD16a antigen, Fc-gamma RIII-alpha, Fc-gamma RIII, Fc-gamma RIIIa, FcRIII, FcRIIIa, FcgammaRIIIA, FcR-10, IgG Fc receptor III-2, CD16a, FCGR3A, CD16A, FCG3, FCGR3, FCGRIII, IGFR3, IMD20, CD16

Additional Information

ATGP3449 has been replaced with a catalog number ATGP4102.

PRODUCT SPECIFICATION

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)

Biological Activity

Measured by its binding ability in a functional ELISA with Human IgG1 Fc (CAT# ATGP4094).

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

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

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repeated freezing and thawing cycles.

BACKGROUND

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-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 LFGSKNVSS TVNITITQGL AVSTISSFFP PGYQ<HHHHHH>

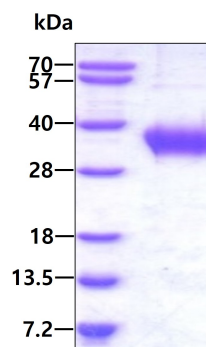
General References

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

Biological Activity

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Human Fc gamma RIIIA/CD16a is coated at 10 ug/ml (100 ul/well) can bind Human IgG1 Fc (CAT# ATGP4094) in a functional ELISA assay.

