

Recombinant human CD16b/FCGR3B protein

Catalog Number: ATGP3673

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

21-200aa

UniProt No.

O75015

NCBI Accession No.

NP_000561.3

Alternative Names

Low affinity immunoglobulin gamma Fc region receptor III-B isoform 2, IgG Fc receptor III-1, IGFR3, FCRIIIb, FCRIII, FCR-10, FCGR3B, FCGR3, FcgammaRIIIb, Fc-gamma RIII-beta, FCG3, Fc gamma receptor IIIb, Fc fragment of IgG receptor IIIb, CD16-I, CD16b, CD16

PRODUCT SPECIFICATION

Molecular Weight

21.4 kDa (188aa)

Concentration

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

Formulation

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

Purity

> 90% 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

FCGR3B, also known as low affinity immunoglobulin gamma Fc region receptor III-B isoform 2, is a member of Ig super family. It encodes a glycosylphosphatidylinositol (GPI) -anchored protein that is expressed constitutively

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by neutrophils and after gamma-interferon stimulation by eosinophils. This protein binds to complex or aggregated IgG and monomeric IgG. Unlike III-A, it cannot mediate antibody-dependent cytotoxicity and phagocytosis. It can be a trap of immune complexes in peripheral blood circulation that does not activate neutrophils. Recombinant human FCGR3B, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

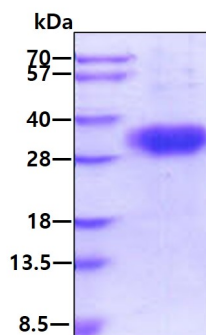
EDLPKAVVFL EPQWYSVLEK DSVTLKCQGA YSPEDNSTQW FHNENLISSQ ASSYFIDAAT VNDSGEYRCQ TNLSTLSDPV
QLEVHIGWLL LQAPRWVFKE EDPIHLRCHS WKNTALHKVT YLQNGKDRKY FHHNSDFHIP KATLKDSGSY FCRGLVGSKN
VSSETVNITI TQGLAVSTIS <VEHHHHHH>

General References

Ravetch J.V., et al. (2001) *Annu. Rev. Immunol.* 19:275-290.
Machado LR., et al. (2012) *Am. J. Hum. Genet.* 90:973-985.

DATA

SDS-PAGE



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