

Recombinant human CD16a/FCGR3A protein

Catalog Number: ATGP1623

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-208aa

UniProt No.

P08637

NCBI Accession No.

NP_001121065

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

PRODUCT SPECIFICATION

Molecular Weight

26 kDa (228aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1M urea, 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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

Low affinity immunoglobulin gamma Fc region receptor III-A (FCGR3A), also known as CD16A. This gene encodes a receptor for the Fc portion of immunoglobulin G, and it is involved in the removal of antigen-antibody complexes from the circulation, as well as other antibody-dependent responses. FCGR3A requires association of

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the gamma subunit of Fc epsilon RI or the zeta subunit of the TCR-CD3 complex for cell surface expression. Mutations in this gene have been linked to susceptibility to recurrent viral infections, susceptibility to systemic lupus erythematosus, and alloimmune neonatal neutropenia. Recombinant human FCGR3A protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

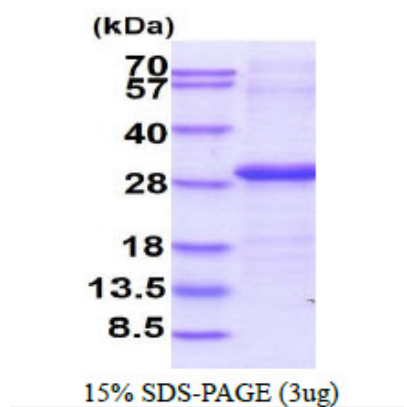
MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSHMRT EDLPKAVVFL EPQWYRVLEK DSVTLKCQGA
YSPEDNSTQW FHNESLISSQ ASSYFIDAAT VDDSGEYRCQ TNLSTLSDPV QLEVHIGWLL LQAPRWVFKE EDPIHLRCHS
WKNTALHKVT YLQNGKGRKY FHHNSDFYIP KATLKDSGSY FCRGLFGSKN VSSETVNITI TQGLAVSTIS SFFPPGYQ

General References

Huizinga T W., et al. (1988) Nature. 333:667-669.
Nagarajan S., et al. (1995) J Biol Chem. 270:25762-25770.

DATA

SDS-PAGE



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