Recombinant Human CD32a/FCGR2A Protein (167 His, His&AVI Tag), Biotinylated



Catalog Number: PKSH030290

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Low affinity immunoglobulin gamma Fc region receptor II-a;IgG Fc receptor II-

a;CDw32;Fc-gamma RII-a;Fc-gamma-RIIa;FcRII-

a;CD32;FCGR2A;FCG2;FCGR2A1;IGFR2;CD32A;CDw32;Fc gamma

RIIA;FCG2;FcGR;FCGR2

Species Human

Expression Host
Sequence
Met 1-Met 210
Accession
P12318-1
Calculated Molecular Weight
Observed molecular weight
Tag
HEK293 Cells
Met 1-Met 210
23.6 kDa
33 kDa
C-His-Avi

Bioactivity 1. Immobilized human IgG2 at 10 μg/ml (100 μl/well) can bind biotinylated human

CD32 with a linear ranger of 0.16-0.8 µg/ml.

2. Using the Octet RED System, the affinity constant (Kd) of CD32a-AVI-His + BirA bound to human IgG was 12nM. 3. Labeling ratio of biotin to protein: 0.1-0.6.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

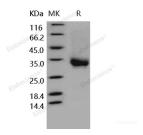
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Receptors for the Fc region of IgG (Fc\u00a7R) are members of the Ig superfamily that function in the activation or inhibition

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of immune responses. Human Fc γ Rs are divided into three classes designated Fc γ RI (CD64), Fc γ RII (CD32), and Fc γ RIII (CD16), which generate multiple isoforms, are recognized. The activating- type receptor either has or associates non-covalently with an accessory subunit that has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain. Fc γ RI binds IgG with high affinity and functions during early immune responses, whereas Fc γ RII and RIII are low affinity receptors that recognize IgG as aggregates surrounding multivalent antigens during late immune responses. Three genes for human Fc γ RII (A, B, and C) and one for mouse (Fc γ RIIB), encoding type I transmembrane proteins with ITAM motifs (Fc γ RII A and C) or ITIM motifs (Fc γ RIIB) in their cytoplasmic domains, have been identified. Human CD32, also known as Low affinity immunoglobulin γ Fc region receptor II-a, Fc γ RII A or FCGR2A Protein, is expressed on cells of both myeloid and lymphoid lineages as well as on cells of non-hematopoietic origin. Associated with an ITAM-bearing adapter subunit, FcR γ , CD32a delivers an activating signal upon ligand binding, and results in the initiation of inflammatory responses including cytolysis, phagocytosis, degranulation, and cytokine production.

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