

CD16a (FcγR3a) Active Protein | CD16 active protein

Human CD16a Recombinant (FcγR3a)

CATALOG #	HOST
AAA14427	N/A (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

CD16a (FcγR3a); Human CD16a Recombinant (FcγR3a); Human CD16a Recombinant (FcγR3a) ; cd16; cd-16; fcγr3a; CD16 active protein

PRODUCT SPECIFICATIONS

Host	N/A (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant CD16a is supplied as a 0.2 um filtered PBS solution, pH7.2.
Sequence Length	290
Domain	Ig-like C2
Source Note	Optimized DNA sequence encoding Human extracellular domain of human CD16a including a C-terminal His tag was expressed in HEK293 cells.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Biological Activity	Recombinant CD16a activity was measured by the ability to bind human IgG with an affinity constant of 180nM.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL.
Molecular Weight Note	Recombinant CD16a is a monomer protein consisting of 203 amino acid residue subunits, due to glycosylation migrates as an approximately 50 kDa protein on SDS-PAGE.
Preparation and Storage	Recombinant CD16a, as supplied, can be stored in working aliquots at 2-8°C for one month, or at -20°C to -70°C for twelve months. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CD16 active protein	Human CD16 is encoded by two genes, FcγRIIIA and FcγRIIIB. FcγRIIIa is a transmembranous isoform of the receptor expressed on the surface of natural killer (NK) cells, macrophages, a subset of monocytes and of T cells in association with dimers of the γ-chain of FcγRI and/or γ-chain of T-cell receptors. FcγRIIIB is a glycosylphosphatidylinositol -anchored isoform restricted to neutrophils. FcγRIII plays a significant role in the clearance of immune complexes, antibody- dependent cellular cytotoxicity of K/NK cells, phagocytosis and antigen presentation.
Product Categories/Family for CD16 active protein	Receptors CD
References	• affinity and kinetic analysis of fc receptor iiia (CD16a) binding to igg ligands .J. Biol. Chem., Mar 2007; 282: 6210 - 6221. • phagocytosis stimulates mobilization and shedding of intracellular CD16a in human monocytes and macrophages: inhibition by hiv-1 infection .J. Leukoc. Biol., Feb 2006; 79: 294 - 302.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50726979
NCBI GeneID	2214
NCBI Accession #	NP_000560.5
NCBI GenBank Nucleotide #	NM_000569.6
UniProt Accession #	P08637; Q53FJ0; Q53FL6; Q5EBR4; Q65ZM6; Q6PIJ0; A2N6W9; Q9ULV2; Q9UN20
NCBI Official Full Name	low affinity immunoglobulin gamma Fc region receptor III-A isoform a
UniProt Protein Name	Low affinity immunoglobulin gamma Fc region receptor III-A
UniProt Gene Name	FCGR3A
UniProt Synonym Gene Names	CD16A; FCG3; FCGR3; IGFR3; Fc-gamma RIII; Fc-gamma RIIIa; FcRIII; FcRIIIa
UniProt Entry Name	FCG3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/cd16-active-protein/cd16a-fcgr3a/14427>