

Active Recombinant Human FCGR3A protein, His-tagged

Cat. No. FCGR3A-309H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FCGR3A protein(P08637-1)(Met1-Gln208,F176V), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-208 a.a.
Form	Lyophilized from sterile PBS, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	1.Immobilized Human FcγRIIIA / CD16a (V176) recombinant protein at 2 μg/mL can bind Human IgG1, the EC50 is 150-450 ng/mL.2.Loaded Human FcγRIIIA / CD16a (V176) recombinant protein on His1K Biosensor, can bind Bevacizumab (IgG1) with an affinity constant of 0.83 μM as determined in a BLI assay (ForteBio Octet Red384) .3.Captured Human FcγRIIIA / CD16a (V176) recombinant protein on Anti-His Chip can bind Bevacizumab (IgG1) with an affinity constant of 0.31 μM as determined in an SPR assay (Biacore T200).4.Captured Bevacizumab (IgG1) on proA Chip can bind Human FcγRIIIA / CD16a (V176) recombinant protein with an affinity constant of 0.78 μM as determined in an SPR assay (Biacore T200).

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Molecular Mass	The secreted recombinant human CD16a consists of 203 amino acids and predicts a molecular mass of 23.3 KDa. By SDS-PAGE under reducing conditions, the apparent molecular mass of human CD16a is approximately 44.2 KDa due to glycosylation.
Proteinlength	Met1-Gln208,F176V
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE. > 95 % as determined by SEC-HPLC
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	FCGR3A Fc fragment of IgG, low affinity IIIa, receptor (CD16a) [Homo sapiens]
Official Symbol	FCGR3A
Synonyms	FCGR3A; Fc fragment of IgG, low affinity IIIa, receptor (CD16a); Fc fragment of IgG, low affinity IIIa, receptor for (CD16) , FCG3, FCGR3; low affinity immunoglobulin gamma Fc region receptor III-A; CD16; CD16a; FcgammaRIIIA; CD16a antigen; fc-gamma RIII; Fc-gamma RIIIa; Fc-gamma RIII-alpha; igG Fc receptor III-2; Fc gamma receptor III-A; Fc-gamma receptor IIIb (CD16); neutrophil-specific antigen NA; Fc-gamma receptor III-2 (CD 16); immunoglobulin G Fc receptor III; Fc fragment of IgG, low affinity III, receptor for (CD16); FCG3; CD16A; FCGR3; IGFR3; FCR-10; FCRIII; FCGRIII; FCRIIIA;

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Gene ID	2214
mRNA Refseq	NM_000569
Protein Refseq	NP_000560
MIM	146740
UniProt ID	P08637

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