

Active Recombinant Human FCGR3A Protein, His-tagged

Cat. No. FCGR3A-626H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human FCGR3A / CD16a (V158) Protein, also called Human FCGR3A / CD16a Protein (176 Val), Gly 17 - Gln 208 (Accession # AAH17865.1), was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	17-208 a.a.
Predicted N Terminal	Gly 17
Form	Lyophilized from sterile PBS, pH7.4, 10% Trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Yervoy Ipilimumab (Human IgG1) at 5 µg/mL (100 µL/well) can bind Human FCGR3A / CD16a (V158), His Tag with a linear range of 1-16 ng/mL. The bioactivity is measured by its binding ability to Ipilimumab in a SPR assay. Immobilized Human FCGR3A / CD16a (V158), His Tag can bind Ipilimumab with affinity constant of around 171 nM.
Molecular Mass	Human FCGR3A / CD16a (V158), His Tag is fused with a polyhistidine tag at the C-terminus, and has a calculated MW of 23.7 kDa. The reducing protein migrates as 40-50 kDa in SDS-PAGE due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>95% as determined by reduced SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°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;
Gene ID	2214
mRNA Refseq	NM_000569
Protein Refseq	NP_000560

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MIM	146740
UniProt ID	P08637
Chromosome Location	1q23
Pathway	Adaptive Immune System, organism-specific biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem; Immune System, organism-specific biosystem; Immunoregulatory interactions between a Lymphoid and a non-Lymphoid cell, organism-specific biosystem; Leishmaniasis, organism-specific biosystem; Leishmaniasis, conserved biosystem;
Function	IgG binding; receptor activity;

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