

Active Recombinant Rhesus FCGR3 protein, His/AVI-tagged

Cat. No. FCGR3-4103C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus FCGR3(Met 1- Gln 208) fused with a C-terminal polyhistidine tagged AVI tag at the C-terminus, was expressed in HEK293.
Species	Rhesus macaque
Source	HEK293
ProteinLength	Met 1- Gln 208
Description	Fc receptors bind the most common class of antibody, IgG, are called Fc gamma receptors (FcyR). FcyR is divided into three classes, Fc γ RI (CD64), Fc γ RII (CD32), and Fc γ RIII (CD16). CD16 protein is a multifunctional, low/intermediate affinity receptor, which belongs to the immunoglobulin superfamily. It is found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. Mouse CD16 is encoded by a single gene, while, human CD16 is expressed as two distinct forms (CD16a/FcyRIIIa and CD16b/FcyRIIIb) encoded by two different highly homologous genes in a cell type-specific manner. CD16 is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), and clearance of immune complexes.
Predicted N Terminal	Gly 17
Form	Lyophilized from sterile PBS, pH 7.41. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the

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hardcopy of COA.2. Please contact us for any concerns or special requirements.

Bio-activity

Measured by its binding ability in a functional ELISA. Immobilized Rhesus CD16-AVI-His at 10 µg/ml (100 µl/well) can bind biotinylated human IgG1. The EC50 of biotinylated human IgG1 is 0.2-0.5 µg/ml.

Molecular Mass

The recombinant rhesus CD16 consists of 223 amino acids and has a calculated molecular mass of 25.3 kDa.

Endotoxin

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

Purity

> 95 % as determined by SDS-PAGE

Stability

Samples are stable for up to twelve months from date of receipt at -70 centigrade

Storage

Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

Shipping

In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name

FCGR3 Fc-gamma RIII [*Macaca mulatta*]

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Official Symbol	FCGR3
Synonyms	CD16; FcRIII; Fc gamma RIIIa; IgG Fc receptor III
Gene ID	720006
mRNA Refseq	NM_001271655
Protein Refseq	NP_001258584
MIM	
UniProt ID	A3RFZ7
Chromosome Location	chromosome: 1
Pathway	Leishmaniasis, organism-specific biosystem; Natural killer cell mediated cytotoxicity, organism-specific biosystem; Phagosome, organism-specific biosystem

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