

Recombinant Mouse CD16 Protein (His Tag)

Catalog Number: PKSM040733

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

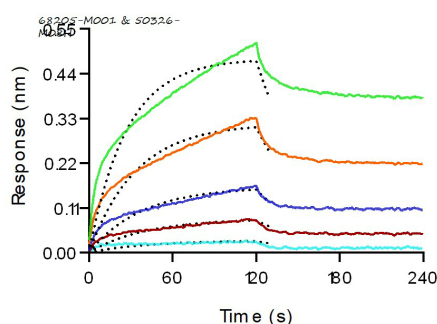
Description

Species	Mouse
Source	HEK293 Cells-derived Mouse CD16 protein Met 1-Thr 215, with an C-terminal His
Calculated MW	22.6 kDa
Accession	P08508-1
Bio-activity	Immobilized mouse FCGR3-His at 10 µg/ml (100 µl/well) can bind biotinylated human IgG1. The EC ₅₀ of biotinylated human IgG1 is 0.12-0.28 µg/ml.

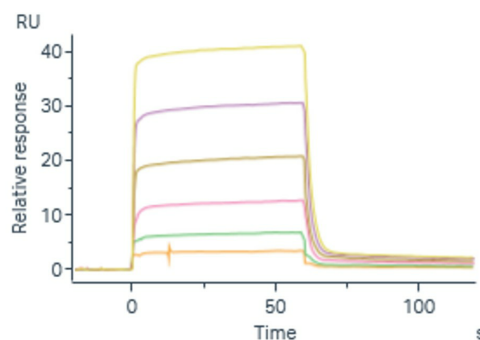
Properties

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% Tween 80 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



Mouse CD16/FCGR3 Protein 37777, Loaded Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (OKT3) on ProA Biosensor, can bind Recombinant Mouse CD16/FCGR3 Protein, His Tag (Cat: PKSM040733) with an affinity constant of 322nM as determined in BLI assay (Sartorius Octet RED384).



OKT3 derived Anti-CD3 antibody, mouse IgG2a immobilized on CM5 chip, can bind Recombinant Mouse CD16/FCGR3/Fc gamma RIII Protein, His Tag (Cat: PKSM040733) with an affinity constant of 0.953 µM as determined in an SPR assay (Biacore 8K).

Background

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Fc receptors bind the most common class of antibody, IgG, are called Fc gamma receptors (Fc γ R). Fc γ R is divided into three classes, Fc γ R I (CD64), Fc γ R II (CD32), and Fc γ R III (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/Fc γ R IIIa and CD16b/Fc γ R IIIb) 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.

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