

Recombinant Mouse Fcgr4 protein(Met 1-Gln 203), His-tagged

Cat. No. Fcgr4-627M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fcgr4 protein(Met 1-Gln 203)(NP_653142.2) was expressed in HEK293, fused with a polyhistidine tag at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	1-203 a.a.
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized mouse FCGR4 at 10 µg/ml (100 µl/well) can bind recombinant human IgG1 (Fc). The EC50 of human IgG1 (Fc) is 0.11-0.25 µg/ml. 2. Loaded Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (OKT3) on ProA Biosensor, can bind Recombinant Mouse FCGR4 Protein, His Tag with an affinity constant of 3.43nM as determined in BLI assay (Sartorius Octet RED384). 3.Loaded Recombinant Mouse CD32B/Fcgr2b Protein, His Tag on His1K Biosensor, can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (OKT3) with an affinity constant of 36.2nM as determined in BLI assay (Sartorius Octet RED384)(Routinely tested).
Molecular Mass	The recombinant mouse FCGR4 consists of 194 amino acids and has a predicted molecular mass of 22.4 kDa. In SDS-PAGE under reducing conditions, the apparent

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molecular mass of rmFCGR4 is approximately 25-35 kDa due to glycosylation.

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

Purity > 95 % as determined by SDS-PAGE

Storage Store at 4°C for up to twelve months from date of receipt. After re-dissolution, aliquot and store at -80°C for up to twelve months. 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 [Fcgr4 Fc receptor, IgG, low affinity IV \[Mus musculus \]](#)

Official Symbol [FCGR4](#)

Synonyms FCGR4; Fc receptor, IgG, low affinity IV; Fc gammaRIV; Fc receptor-like 3; Fc fragment of IgG, low affinity IIIa, receptor for (CD16); Fc fragment of IgG, low affinity III, receptor for (CD16); Fcrl3; CD16-2; FcγRIV; Fcγ3a; FcγgammaRIV; 4833442P21Rik

Gene ID [246256](#)

mRNA Refseq [NM_144559](#)

Protein Refseq [NP_653142](#)

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