

FCGR4 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	Fcgr3a;FcgammaRIV;Fcrl3;Fc receptor, IgG, low affinity IV;4833442P21Rik;FcγRIV;CD16-2; FcgRIV
Protein Construction:	The amino acid sequence corresponding to Met 1-Gln 203 of mouse FCGR4 (NP_653142.2) was fused with a polyhistidine tag at the C-terminus. Predicted N terminal: Glu 19
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	A0A0B4J1G0
Molecular Weight:	22.4 kDa (predicted); 25-35 kDa (reducing condition, due to glycosylation)

QC Testing

Biological 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 on ProA Biosensor, can bind Recombinant Mouse FCGR4 Protein, His Tag with an affinity constant of 3.43nM as determined in BLI assay(QC tested).
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.15 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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