Active Recombinant Mouse Fcgr1 protein(Met1-Pro297), His&Avi-tagged, Biotinylated

Cat. No. Fcgr1-190M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Mouse FCGR1 (NP_034316.1)(Met 1-Pro 297) was was expressed in HEK293, fused with a c-terminal polyhistidine tagged AVI tag at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Pro297
Conjugation/Label	Biotin
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. Immobilized Rituximab (IgG1) at 1 μg/mL can bind Biotinylated Mouse FcγRI / CD64 recombinant protein (His & Avi Tag), the EC50 is 20-50 ng/mL. 2. Loaded Biotinylated Mouse FcγRI / CD64 recombinant protein (His & Avi Tag) on SA Biosensor, can bind Bevacizumab (IgG1) with an affinity constant of 0.66 μM as determined in a BLI assay (ForteBio Octet Red384). 3. Loaded Biotinylated Mouse FcγRI / CD64 recombinant protein (His & Avi Tag) on SA Biosensor, can bind Nivolumab (IgG4) with an affinity constant of 1.9 μM as determined in a BLI assay (ForteBio Octet Red384).

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Molecular Mass	The recombinant mouse FCGR1 consists of 308 amino acids after removal of the signal peptide and has a predicted molecular mass of 34.3 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rm FCGR1 is approximately 50-55 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. > 90 % as determined by SEC-HPLC
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°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.
Conjugation	Biotin

GENE INFORMATION

Gene Name	Fcgr1 Fc receptor, IgG, high affinity I [Mus musculus]
Official Symbol	Fcgr1
Synonyms	FCGR1; Fc receptor, IgG, high affinity I; high affinity immunoglobulin gamma Fc receptor I; fcRI; fc-gamma RI; igG Fc receptor I; IgG high affinity Fc receptor; CD64; IGGHAFC; AI323638; AV092959; FcgammaRI;
Gene ID	14129
mRNA Refseq	NM_010186

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Protein Refseq	NP_034316

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