

Active Recombinant Rat Fcgrt & B2m protein, Avi-His&StrepII-tagged, Biotinylated

Cat. No. Fcgrt & B2m-1537R **Lot. No.** (See product label)

SPECIFICATION	
Product Overview	Biotinylated Recombinant Rat Fcgrt & B2m protein(Ala 23 - Ser 298 (FCGRT) & Ile 21 - Met 119 (B2M)), fused with Avi-His and StrepII tag, was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	Ala23-Ser298(FCGRT)&Ile21-Met119(B2M)
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Biotinylated Rat FCGRT&B2M Heterodimer Protein, Avitag,His Tag&Strep II Tag captured on Biotin CAP-Series S Sensor Chip can bind Herceptin with an affinity constant of 10.3 nM as determined in a SPR assay (Biacore T200).
Molecular Mass	Biotinylated Rat FCGRT&B2M Heterodimer Protein, Avitag,His Tag&Strep II Tag, produced by co-expression of FCGRT and B2M, has a calculated MW of 34.7 kDa (FCGRT) and 13.1 kDa (B2M). Subunit FCGRT is fused with an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag and subunit Beta-2 microglobulin (B2M) is fused with a Strep II tag at the C-terminus. The reducing (R) protein migrates as 45-50 kDa (FCGRT) and 14 kDa (B2M) respectively due to different glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.>90% as determined by SEC-MALS.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower.Please protect from light and avoid repeated freeze-thaw cycles.This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
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	Fcgrt Fc fragment of IgG, receptor, transporter, alpha [<i>Rattus norvegicus</i>]
Official Symbol	FCGRT
Synonyms	FCGRT; Fc fragment of IgG, receptor, transporter, alpha; IgG receptor FcRn large subunit p51; neonatal Fc receptor; Fc fragment immunoglobulin G receptor; Fc receptor, IgG, alpha chain transporter; igG Fc fragment receptor transporter alpha chain; FcRn;
Gene ID	29558
mRNA Refseq	NM_033351
Protein Refseq	NP_203502

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