

Recombinant Rat FCGRT/B2M protein, His-tagged, Biotinylated

Cat. No. FCGRT & B2M-1535RB **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant Rat FCGRT(Met1-Ser298, extracellular domain)/B2M(Met1-Met119) protein, fused to His-tag at C-terminus, was expressed in HEK293 cells and biotinylated in vitro.
Species	Rat
Source	HEK293
ProteinLength	386
Description	Cell surface receptor that transfers passive humoral immunity from the mother to the newborn. Binds to the Fc region of monomeric immunoglobulin gamma and mediates its selective uptake from milk. IgG in the milk is bound at the apical surface of the intestinal epithelium. The resultant FcRn-IgG complexes are transcytosed across the intestinal epithelium and IgG is released from FcRn into blood or tissue fluids. Throughout life, contributes to effective humoral immunity by recycling IgG and extending its half-life in the circulation. Mechanistically, monomeric IgG binding to FcRn in acidic endosomes of endothelial and hematopoietic cells recycles IgG to the cell surface where it is released into the circulation. In addition of IgG, regulates homeostasis of the other most abundant circulating protein albumin/ALB.
Predicted N Terminal	Ala23 & Ile21
Form	Lyophilized from sterile PBS. Normally 5%-8% trehalose, mannitol and 0.01%

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	Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant heterodimer of rat FCGRT & B2M comprises 386(287+99) amino acids and has a calculated molecular mass of 44(32.4+ 11.6) KDa.
Endotoxin	<1.0 EU per µg protein as determined by the LAL method.
Purity	>85% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. 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 0.25 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.
Conjugation	Biotin

GENE INFORMATION

Gene Name	FCGRT
Official Symbol	FCGRT

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Synonyms	FcRn; Fcgrt
Gene ID	29558
mRNA Refseq	NM_033351
Protein Refseq	NP_203502
UniProt ID	P13599
SDS-PAGE of FCGRT & B2M-1535RB 	