

Active Recombinant Human FCGRT&B2M protein, His&StrepII-tagged, Biotinylated

Cat. No. FCGRT & B2M-1927H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human FCGRT&B2M protein(Ala 24 - Ser 297 (FCGRT) & Ile 21 - Met 119 (B2M)), fused with His and StrepII tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Ala24-Ser297(FCGRT)&Ile21-Met119(B2M)
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Loaded Biotinylated Human FCGRT&B2M, His Tag&Strep II Tag, primary amine labeling on SA Biosensor, can bind Herceptin with an affinity constant of 0.36 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested). Loaded Biotinylated Human FCGRT&B2M, His Tag&Strep II Tag, primary amine labeling on SA Biosensor, can bind Human Serum Albumin, His Tag with an affinity constant of 0.263 µM as determined in BLI assay (ForteBio Octet Red96e).
Molecular Mass	Biotinylated Human FCGRT&B2M, His Tag&Strep II Tag, primary amine labeling, produced by co-expression of FCGRT and B2M, has a calculated MW of 31.2 kDa (FCGRT) and 13.1 kDa (B2M). Subunit FCGRT is fused with a polyhistidine tag at the C-terminus and subunit Beta-2 microglobulin (B2M) is fused with Strep II-tag at the C-terminus. The reducing (R) protein migrates as 33 kDa (FCGRT) and 13 kDa (B2M)

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respectively due to glycosylation.

Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-HPLC.
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 [Homo sapiens]
Official Symbol	FCGRT
Synonyms	FCGRT; Fc fragment of IgG, receptor, transporter, alpha; IgG receptor FcRn large subunit p51; alpha chain; FCRN; FcRn alpha chain; neonatal Fc receptor; neonatal Fc-receptor for Ig; IgG Fc fragment receptor transporter alpha chain; immunoglobulin receptor, intestinal, heavy chain; major histocompatibility complex class I-like Fc receptor; alpha-chain;
Gene ID	2217
mRNA Refseq	NM_001136019
Protein Refseq	NP_001129491

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MIM	601437
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UniProt ID	P55899
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