

Active Recombinant Human FCGRT & B2M protein, His-Avi-tagged

Cat. No. FCGRT & B2M-1537H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Fcgrt protein(Met1-Ser297)(NP_004098.1) was fused with a C-terminal polyhistidine tagged AVI tag at the C-terminus, constructed the plasmid 1; Recombinant Rat B2M protein (NP_004039.1) (Met1-Met119) constructed the plasmid 2. The two plasmids were co-expressed and the human FCGRT/B2M heterodimer was purified. The purified heterodimer was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.
Species	Human
Source	HEK293
ProteinLength	Met1-Ser297&Met1-Met119
Form	Lyophilized from sterile PBS, pH 7.4
Bio-activity	1. Measured by its ability to bind human IgG1 (Fc) in a functional ELISA. 2.Loaded Biotinylated Human FcRn recombinant protein (His & Avi Tag) on SA Biosensor, can bind IgG1 Fc (IgG1) with an affinity constant of 0.073 μM as determined in a BLI assay (ForteBio Octet Red384). 3.Loaded Biotinylated Human FcRn recombinant protein (His & Avi Tag) on SA Biosensor, can bind IgG4 Fc with an affinity constant of 0.070 μM as determined in a BLI assay (ForteBio Octet Red384). 4.The purity of Human FCGRT & B2M Heterodimer Protein (His & AVI Tag),

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	Biotinylated is more than 95% and the molecular weight of this protein is around 46-56 kDa verified by SEC-MALS.
Molecular Mass	The recombinant heterodimer of human FCGRT/B2M comprises 399 (300+99) amino acids and has a calculated molecular mass of 45.3 (33.6+11.7) KDa.
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.