Active Recombinant Human FCGRT&B2M protein, His tagged

Cat. No. FCGRT&B2M-3802H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FCGRT (P55899) extracellular domain (Met 1-Ser 297), fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; Human B2M (P61769) (Met 1-Met 119) constructed the plasmid 2. The two plasmids were co-expressed and the FCGRT / B2M he
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 in a functional ELISA. 2.Loaded Human FcRn recombinant protein on His1K Biosensor, can bind IgG1 with an affinity constant of 0.11 μM as determined in a BLI assay (ForteBio Octet Red384). 3.Loaded Human FcRn recombinant protein on His1k Biosensor, can bind IgG4 Fc with an affinity constant of 0.08 μM as determined in a BLI assay (ForteBio Octet Red384). 4.Captured Human FcRn recombinant protein on Anti-His Chip can bind Bevacizumab (IgG1) with an affinity constant of 0.11 μM as determined in an SPR assay (Biacore T200). 5.Captured Human FcRn recombinant protein on Anti-His Chip can bind Nivolumab (IgG4) with an affinity constant of 0.23 μM as determined in an SPR assay (Biacore

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

	T200). 6.The purity of Human FCGRT & B2M Heterodimer Protein is more than 90% and the molecular weight of this protein is around 45-53 kDa verified by SEC-MALS.
Molecular Mass	The recombinant heterodimer of human FCGRT/B2M comprises 384 (285+99) amino acids and has a calculated molecular mass of 43.5 (31.8+11.7) kDa. The apparent molecular mass of human FCGRT/B2M heterodimer is approximately 35 & 12 kDa respectively in SDS-PAGE under reducing conditions.
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.

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