

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

Cat. No. FCGRT & B2M-921HB **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant extracellular domain (Met1-Ser297) of human FCGRT (NP_004098.1) was fused with a C-terminal polyhistidine tagged AVI tag at the C-terminus, constructed the plasmid 1; Recombinant human B2M (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	1-297 a.a.
Predicted N Terminal	Ala 24 & Ile 21
Form	Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween80.
Bio-activity	Using the Octet RED System, the affinity constant (Kd) of FCGRT & B2M Heterodimer Protein, Human, Recombinant (AVI Tag), Biotinylated bound to Herceptin was 0.03 μ M.
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.

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Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Labeling ratio of biotin to protein is 0.5-1 as determined by the HABA assay.
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 0.25 mg/ml. Centrifuge the vial at 4°C 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

Official Symbol	FCGRT & B2M
Synonyms	FCGRT; B2M; alpha-chain; FCRN
Protein Refseq	NP_004098.1 & NP_004039.1

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