

Active Recombinant Canine FCGRT&B2M protein, His-tagged

Cat. No. FCGRT&B2M-1418C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Canine FCGRT&B2M protein(Ala23-Pro298(FCGRT)&Val28-Asn125(B2M)), fused with His tag, was expressed in HEK293.
Species	Canine
Source	HEK293
ProteinLength	23-298;28-125 a.a.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Canine FCGRT&B2M Heterodimer Protein, His Tag&Tag Free captured on CM5 chip via anti-His antibody can bind Herceptin with an affinity constant of 0.171 µM as determined in a SPR assay (Biacore 8K).Canine FCGRT&B2M Heterodimer Protein, His Tag&Tag Free captured on CM5 chip via anti-His antibody can bind Ipilimumab with an affinity constant of 0.132 µM as determined in a SPR assay (Biacore 8K).Canine FCGRT&B2M Heterodimer Protein, His Tag&Tag Free captured on CM5 chip via anti-His antibody can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3) with an affinity constant of 1.11 µM as determined in a SPR assay (Biacore 8K).
Molecular Mass	Canine FCGRT&B2M Heterodimer Protein, His Tag&Tag Free, produced by co-expression of FCGRT and B2M, has a calculated MW of 32.3 kDa (FCGRT) and 11.6 kDa (B2M). Subunit FCGRT is fused with a polyhistidine tag at the C-terminus and

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	subunit Beta-2 microglobulin (B2M) contains no tag at the C-terminus. The reducing (R) protein migrates as 35-37 kDa (FCGRT) and 13 kDa (B2M) respectively due to glycosylation.
Proteinlength	Ala23-Pro298(FCGRT)&Val28-Asn125(B2M)
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower. Please 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.