

FCGRT & B2M Heterodimer Protein, Cynomolgus, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	Fc fragment of IgG, receptor, transporter, alpha;Fc fragment of IgG, receptor, transporter, α
Protein Construction:	A DNA sequence encoding the cynomolgus FCGRT (Q8SPV9) (Met 1-Ser 297) was fused with a c-terminal polyhistidine tagged AVI tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the cynomolgus B2M (Q8SPW0) (Met 1-Met 119) constructed the plasmid 2. The two plasmids were co-expressed and the FCGRT/B2M heterodimer was purified. The purified heterodimer was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. Predicted N terminal: Ala 24 & Ile 21
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q8SPV9&Q8SPW0
Molecular Weight:	45.3 kDa (predicted)

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Anti-CD20 Antibody at 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) can bind Recombinant Cynomolgus FCGRT&B2M Heterodimer Protein (His & AVI Tag), Biotinylated, the EC50 is 80-240 ng/mL.
2. Loaded Biotinylated Cynomolgus FcRn recombinant protein (His & Avi Tag) on SA Biosensor, can bind IgG1 Fc with an affinity constant of 0.08 μM as determined in a BLI assay.
3. The purity of Cynomolgus FCGRT & B2M Heterodimer Protein (His & AVI Tag), Biotinylated is more than 90% and the molecular weight of this protein is around 46-56 kDa verified by SEC-MALS.
Purity:	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC
Endotoxin:	< 1.0 EU/ μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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