

FCGRT & B2M Heterodimer Protein, Human, Recombinant (His)

General Information

Synonyms:	Fc fragment of IgG, receptor, transporter, alpha;alpha-chain;α-chain;Fc fragment of IgG, receptor, transporter, α;FCRN
Protein Construction:	A DNA sequence encoding the extracellular domain (Met1-Ser297) of human FCGRT (P55899-1) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the human B2M (P61769) (Met1-Met119) constructed the plasmid 2. The two plasmids were co-expressed and the FCGRT / B2M heterodimer was purified. Predicted N terminal: Ala 24 & Ile 21
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P55899-1&P61769
Molecular Weight:	43.5 kDa (predicted); 35 & 12 kDa (reducing conditions)

QC Testing

Biological Activity:	<ol style="list-style-type: none">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.
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.
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 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.
7. Loaded Recombinant Human FCGRT & B2M Heterodimer Protein, His Tag on His1K Biosensor, can bind Anti-ErbB2 Antibody, human IgG1 with an affinity constant of 11.1nM as determined in BLI assay (QC tested).
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.
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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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