

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

### General Information

Synonyms:	Fc fragment of IgG, receptor, transporter, alpha; Fc fragment of IgG, receptor, transporter, $\alpha$ ; FcRn
Protein Construction:	A DNA sequence encoding the mouse FCGRT (NP_034319.2) (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 mouse B2M (P01887,105Ala/Asp) (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: Ser 22 & Ile 21
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q61559
Molecular Weight:	46 kDa (predicted)

### QC Testing

Biological Activity:	1. Measured by its ability to bind recombinant rhFc(CHO) on SA Biosensor, can bind Rituximab (IgG1) with an affinity constant of 0.4 nM as determined in a BLI assay.
Purity:	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m 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:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### 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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