

## FCGRT & B2M Heterodimer Protein, Mouse, Recombinant (His) V2

### General Information

Synonyms:	Fc fragment of IgG, receptor, transporter, alpha;FcRn;Fc fragment of IgG, receptor, transporter, $\alpha$
Protein Construction:	Ser22-Ser297(FCGRT) & Ile21-Met119(B2M)
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q61559(FCGRT)&P01887(B2M)
Molecular Weight:	32.1 kDa (FCGRT)&11.7 kDa (B2M) (Predicted); 50-55 kDa (FCGRT)&14-15 kDa (B2M) (Due to glycosylation)

### QC Testing

Biological Activity:	Mouse FcRn, His Tag captured on CM5 Chip via anti-his antibody can bind Trastuzumab with an affinity constant of 1.76 nM as determined in SPR assay (Biacore T200) (QC Test).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 $\mu$ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100  $\mu$ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

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.

### Protein Background

The neonatal Fc receptor (FCRN) is an approximately 45 kDa transmembrane glycoprotein with structural homology to MHC class I proteins. It is widely expressed in endothelial and epithelial cells and plays an important role in IgG homeostasis and antigen presentation by dendritic cells. FCGRT & B2M heterodimer protein (FcRn complex) consist of two subunits: p51, and p14, and forms an MHC class I-like heterodimer.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481