Mouse FcRn heterodimer Protein (In Vivo Grade, Ultra-Low Endotoxin)

Product Code: ICH3029

More Information

Species Reactivity: Mouse

Target: Mouse FcRn heterodimer Protein

Host: Human embryonic kidney (HEK) 293 cells

product name H2: Mouse FcRn heterodimer Protein (In Vivo Grade, Ultra-Low Endotoxin)

UniProt: Q61559 / P01887

Shipping Conditions: Ambient

background: In mice, FcRn controls the half-life of IgG and albumin through pH-dependent recycling, a mechanism widely exploited when optimizing antibody pharmacokinetics in preclinical models. This recombinant mouse FcRn heterodimer, formed from the alpha chain and beta-2-microglobulin, is expressed in HEK 293 cells and validated for SPR, BLI and ELISA to support pH-dependent IgG binding studies. It is supplied for research use only in an in vivo grade, ultra-low-endotoxin format and produced in scalable milligram (mg) to gram (g) quantities, giving bulk and high-throughput laboratories a dependable murine FcRn reagent for pharmacokinetics and Fc engineering research.

Other names: FcRn, FCGRT, FCGRT & B2M, FCGRT and B2M, Neonatal Fc receptor, Neonatal receptor, Brambell receptor

Specificity: The sequence of the extracellular domain of mouse FCGRT (Ser 22-Ser 297) was fused with a C-terminal tag consisting of the AVI tag, TEV protease recognition sequence and a 10-His tag. This was co-transfected with the sequence of mouse B2M (Ile 21-Met 119) and the resulting FcRn heterodimer was purified. The full protein sequences can be downloaded from the product webpage.

Formulation: Lyophilized from sterile PBS, pH 7.4. No preservatives or cryoprotectants have been added. To obtain a final concentration of 1 mg/ml reconstitute 0.25 mg vials with 0.25 ml water and 1.0 mg vials with 1.0 ml water.

Purity: >95% monomer purity as determined by SDS-PAGE and SEC-HPLC.

Endotoxin: 1.0 EU per mg as determined by the LAL method.

Storage: Lyophilized proteins are stable at ambient temperature for at least 2 weeks. If the protein is not to be used immediately then the protein should be stored in lyophilized form at -20 °C for up 12 months. Once the protein has been reconstituted we recommen

Applications: SPR, BLI, ELISA

Use: Products are for research use only. Not for use in diagnostic or therapeutic procedures.