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

Product Code: ICH3018

More Information

Species Reactivity: Human

Target: Human FcRn heterodimer Protein

Host: Human embryonic kidney (HEK) 293 cells.

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

UniProt: P55899 / P61769

Shipping Conditions: Ambient

background: The neonatal Fc receptor (FcRn) is the MHC-class-I-like heterodimer of an alpha chain and beta-2-microglobulin that governs IgG and albumin half-life through pH-dependent recycling, a property central to antibody pharmacokinetics. This recombinant human FcRn heterodimer is expressed in HEK 293 cells and validated for SPR, BLI and ELISA, making it a defined tool for pH-dependent IgG binding studies, Fc engineering and half-life-extension research. Supplied for research use only as an in vivo grade, ultra-low-endotoxin preparation, it is produced in scalable milligram (mg) to gram (g) quantities so bulk and high-throughput laboratories can run FcRn binding assays with reliable reproducibility.

Other names: Human FCGRT-B2M, FcRn, FCGRT & B2M, Neonatal Fc receptor

Specificity: The sequence of the extracellular domain of human FCGRT (Ala 24-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 human 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.