

# Human FcRn heterodimer Protein - Biotin

**Product Code:** ICH3018B

## More Information

**Species Reactivity:** Human

**Target:** Human FcRn heterodimer Protein

**Host:** Human embryonic kidney (HEK) 293 cells.

**product name H2:** Human FcRn heterodimer Protein - Biotin

**UniProt:** P55899 / P61769

**Shipping Conditions:** Ambient

**background:** FcRn, the neonatal Fc receptor, recycles IgG and albumin in a pH-dependent manner and is a cornerstone of antibody half-life engineering. This biotinylated recombinant human FcRn heterodimer, produced in HEK 293 cells, is suited to streptavidin-capture SPR, BLI and ELISA assays where oriented immobilization improves the accuracy of pH-dependent IgG binding measurements. It is a non-therapeutic reagent for research use only, prepared to in vivo grade standards with ultra-low endotoxin. Available in scalable milligram (mg) to gram (g) batches, it gives high-throughput and heavy-usage laboratories a consistent FcRn tool for pharmacokinetics and Fc optimization studies.

**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.