

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

Product Code: ICH3024

More Information

Species Reactivity: Pig (*sus scrofa domesticus*)

Target: Pig FcRn heterodimer Protein

Host: Human embryonic kidney (HEK) 293 cells

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

UniProt: E9LK24 / Q07717

Shipping Conditions: Ambient

background: In the pig, as in other mammals, FcRn governs the recycling and extended half-life of IgG and albumin, making it relevant to antibody pharmacokinetics in swine translational models. This recombinant pig FcRn heterodimer, comprising the alpha chain paired with beta-2-microglobulin, is expressed in HEK 293 cells and validated for SPR, BLI and ELISA to enable pH-dependent IgG binding analysis across species. The protein is non-therapeutic and for research use only, manufactured to in vivo grade with ultra-low endotoxin. Available in scalable milligram (mg) to gram (g) quantities, it supports high-throughput and bulk pharmacokinetic and Fc engineering studies.

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

Specificity: The sequence of the extracellular domain of porcine FCGRT (Ala 24-Ser 298) 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 porcine B2M (Val 21-His 120) 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 to 12 months. Once the protein has been reconstituted we recommend

Applications: SPR, BLI, ELISA

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