

# Marmoset FcRn (FCGRT-B2M) heterodimer protein

Catalog number MAFCRN-U

## Synonyms

FcRn, FCGRT, FCGRT & B2M, FCGRT and B2M, Neonatal Fc receptor, Neonatal receptor, Brambell receptor

## Species

Marmoset (*Callithrix jacchus*)

## Accession number

U3CHJ4 / P63061

## Allotype

Not applicable

## Conjugation status

Unconjugated

## Purity

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

## Endotoxin

<1.0 EU per mg as determined by the LAL method.

## Protein design

The sequence of the extracellular domain of marmoset 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 marmoset B2M (Ile 21-Ile 119) and the resulting FcRn heterodimer was purified. The full protein sequences can be downloaded from the product webpage.

## Molecular weight

The recombinant FcRn heterodimer including tags consists of 412 amino acids and has a theoretical mass of 46444 Da. The heterodimer consists of marmoset FCGRT (313 amino acids; 34846 Da) and marmoset B2M (99 amino acids; 11598 Da).

## Expression host

Human embryonic kidney (HEK) 293 cells

## Formulation

Lyophilized from sterile PBS, pH 7.4. No preservatives or cryoprotectants have been added.

## Reconstitution

To obtain a final concentration of 1 mg/ml reconstitute 100 µg vials with 100µl water and 500µg vials with 500µl water. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Do not vortex.

## Shipping

All recombinant proteins are provided as lyophilized powder and shipped at ambient temperature.

## Storage and stability

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 storage at 4 °C for up to one week. For longer term storage of protein in solution we recommend aliquoting into smaller vials to avoid repeated freeze-thaw cycles and storage at -20 or -80 °C for up to 3 months.

## Quality control

All recombinant proteins are tested for purity by SDS-PAGE and SEC-HPLC with a minimum requirement of >95% monomer purity. Biological activity is confirmed by surface plasmon resonance on a Biacore instrument. Please see certificate of analysis (COA) for batch specific quality control data and images.

## Product description

IgG Fc fragment receptor transporter, also known as the neonatal Fc receptor or more commonly FcRn, consist of two subunits (FCGRT and B2M) and forms an MHC class I-like heterodimer. FcRn binds to the Fc domain of monomeric IgG and mediates the pH dependent recycling of IgG as well as its uptake from milk and transfer from mother to fetus.

**For research use only. Not for use in diagnostic or therapeutic procedures.**

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