Mouse Fc gamma RIVa / CD16a-2 protein

Catalog number MOGR4-U

Synonyms

CD16-2, FCGR4, FCGRIV, FCR4, FCRIV, IGFR4, IGFRIV

Species

Mouse

Accession number

A0A0B4J1G0

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 mouse CD16-2 (Gly 21-Gln 203) was fused with a C-terminal tag consisting of the AVI tag, TEV protease recognition sequence and a 10-His tag. The full protein sequence can be downloaded from the product webpage.

Molecular weight

The recombinant mouse CD16a-2 including tag consists of 222 amino acids and has a theoretical mass of 25395 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 250 μg vials with 250 μl water and 1.0 mg vials with 1.0 ml 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 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

Immunoglobulin gamma Fc receptor IV, also known as FcγRIV or CD16-2, is a type I integral membrane glycoprotein. It is most closely related to human Fc gamma RIIIA (CD16a) and may be its true ortholog. CD16-2 is a member of the immunoglobulin superfamily and is expressed on monocytes, macrophages and neutrophils. CD16-2 bind mouse IgG2a and 2b with moderate affinity and does not bind to mouse IgG1 or 3.

The product provided only contains the extracellular portion of CD16a.

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

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