

## Recombinant Mouse B2m & Fcgrt protein, His-Avi-tagged

**Cat. No.** B2m & Fcgrt-054M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Mouse FcRn is expressed from mammalian with a His tag and Avi Tag at the C-terminal. . It contains Ser22-Ser297(FCGRT)& Ile21-Met119(B2M) .                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | It contains Ser22-Ser297(FCGRT)& Ile21-Met119(B2M).                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | The neonatal Fc receptor (FCRN) is an approximately 45 kDa transmembrane glycoprotein with structural homology to MHC class I proteins. It is widely expressed in endothelial and epithelial cells and plays an important role in IgG homeostasis and antigen presentation by dendritic cells.FCGRT & B2M heterodimer protein (FcRn complex) consist of two subunits: p51, and p14 , and forms an MHC class I-like heterodimer. |
| <b>Form</b>             | Supplied as 0.22um filtered solution in PBS (pH 7.4).                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | The protein has a predicted MW of 47.1 kDa same as Bis-Tris PAGE result.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | Less than 0.01EU per ug by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | The product should be stored at -70°C. Please do not repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                               |

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**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

**Gene Name** B2m beta-2 microglobulin [ *Mus musculus* (house mouse) ]

**Official Symbol** B2m ; Fcgrt

**Synonyms** FcRn alpha chain;alpha-chain; Fc fragment of IgG, receptor, transporter, alpha; FCGRT; FCRN; FCRNimmunoglobulin receptor, intestinal, heavy chain; IgG Fc fragment receptor transporter alpha chain; IgG receptor FcRn large subunit p51; major histocompatibility complex class I-like Fc receptor; Neonatal Fc receptor; neonatal Fc-receptor for Ig

**Gene ID** 12010

**mRNA Refseq** NM\_009735.3

**Protein Refseq** NP\_033865.2

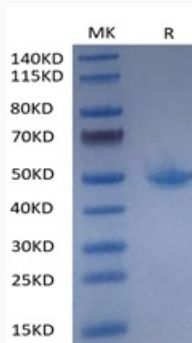
**UniProt ID** P01887

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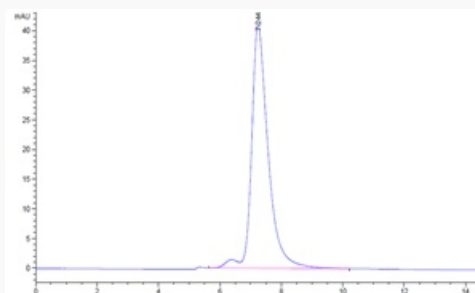
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## Tris-Bis PAGE



## HPLC data



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