

Active Recombinant Mouse FcRn Protein, His-tagged

Cat. No. FCGRT&B2M-02M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse FcRn Protein (Ser22-Ser301) with a C-terminal 6-His tag was expressed in Mouse myeloma cell line.
Species	Mouse
Source	NS0
ProteinLength	Ser22-Ser301
Description	Predicted to enable IgG binding activity and beta-2-microglobulin binding activity. Predicted to be involved in immune response. Predicted to be located in endosome and plasma membrane. Predicted to be integral component of membrane. Predicted to be active in external side of plasma membrane and extracellular space. Is expressed in several structures, including genitourinary system; intestine; liver; sensory organ; and skeleton. Orthologous to human FCGRT (Fc fragment of IgG receptor and transporter).
Form	Lyophilized
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse FCRN is immobilized at 0.5 µg/mL (100 µL/well), the concentration of human IgG that produces 50% of the optimal binding response is found to be approximately 2-10 µg/mL.
Molecular Mass	Predicted Molecular Mass: 32 kDa (mFcRn); 12 kDa (m beta -2-microglobulin)

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	SDS-PAGE: 41-46 kDa (mFcRN); 9-12 kDa (m beta -2-microglobulin)
N-terminal Sequence Analysis	Ser22 (FcRN) & Ile21 (beta -2-microglobulin)
Endotoxin	< 0.10 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Applications	Bioactivity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 250 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	Fcgrt Fc fragment of IgG receptor and transporter [<i>Mus musculus</i> (house mouse)]
Official Symbol	Fcgrt
Synonyms	Fcgrt; Fc fragment of IgG receptor and transporter; FcRn; IgG receptor FcRn large subunit p51; Fc receptor, IgG, alpha chain transporter; igG Fc fragment receptor

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transporter alpha chain; neonatal Fc receptor

Gene ID 14132**mRNA Refseq** NM_010189**Protein Refseq** NP_034319**UniProt ID** Q61559 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA