

Recombinant Human FCGRT Protein, Ala24-Ser297, C-6×His tagged

Cat. No. FCGRT-33H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FCGRT Protein, Ala24-Ser297, with a C-terminal 6-His tag was expressed in Human embryonic kidney cell.
Species	Human
Source	HEK293
ProteinLength	Ala24-Ser297
Description	This gene encodes a receptor that binds the Fc region of monomeric immunoglobulin G. The encoded protein transfers immunoglobulin G antibodies from mother to fetus across the placenta. This protein also binds immunoglobulin G to protect the antibody from degradation. Alternative splicing results in multiple transcript variants.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human FCRN is immobilized at 2 µg/mL (100 µL/well), the concentration of biotinylated human IgG that produces 50% of the optimal binding response is approximately 2-10 µg/mL.
Molecular Mass	Predicted Molecular Mass 31 kDa (FCRN), 10 kDa (beta 2 Microglobulin) SDS-PAGE 30-36 kDa (FCRN), 10 kDa (beta 2 Microglobulin)
Endotoxin	<0.10 EU/µg of the protein by the LAL method.

 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

Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
N-terminal Sequence Analysis	Ala24 (FCRN), Ile21 (beta 2 Microglobulin)
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.
Shipping	The product is shipped at ambient temperature.
Reconstitution	Reconstitute at 500 µg/mL in PBS.

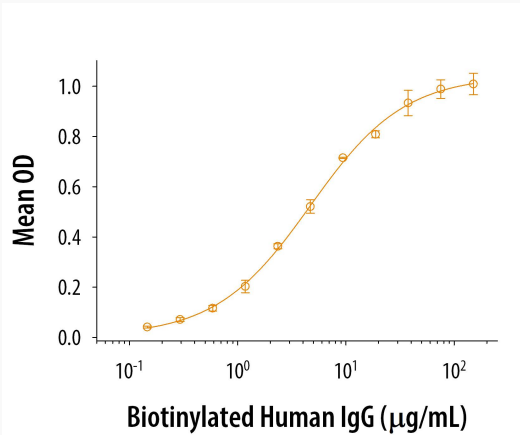
GENE INFORMATION

Gene Name	FCGRT Fc gamma receptor and transporter [Homo sapiens (human)]
Official Symbol	FCGRT
Synonyms	FCGRT; Fc gamma receptor and transporter; FCRN; FcgammaRn; alpha-chain; IgG receptor FcRn large subunit p51; Fc fragment of IgG receptor and transporter; Fc fragment of IgG, receptor, transporter, alpha; FcRn alpha chain; IgG Fc fragment receptor transporter alpha chain; heavy chain of the major histocompatibility complex class I-like Fc receptor; immunoglobulin receptor, intestinal, heavy chain; major histocompatibility complex class I-like Fc receptor; neonatal Fc receptor; neonatal Fc-receptor for Ig; transmembrane alpha chain of the neonatal receptor

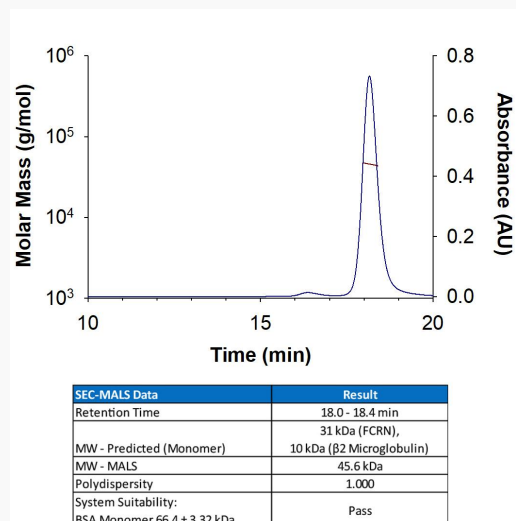
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Gene ID	2217																								
mRNA Refseq	NM_004107																								
Protein Refseq	NP_004098																								
MIM	601437																								
UniProt ID	P55899																								
Bioactivity	 <table border="1"> <caption>Approximate data points from the bioactivity graph</caption> <thead> <tr> <th>Biotinylated Human IgG (μg/mL)</th> <th>Mean OD</th> </tr> </thead> <tbody> <tr><td>0.1</td><td>0.05</td></tr> <tr><td>0.2</td><td>0.08</td></tr> <tr><td>0.5</td><td>0.12</td></tr> <tr><td>1.0</td><td>0.20</td></tr> <tr><td>2.0</td><td>0.38</td></tr> <tr><td>5.0</td><td>0.55</td></tr> <tr><td>10.0</td><td>0.72</td></tr> <tr><td>20.0</td><td>0.82</td></tr> <tr><td>50.0</td><td>0.95</td></tr> <tr><td>100.0</td><td>0.98</td></tr> <tr><td>200.0</td><td>1.00</td></tr> </tbody> </table>	Biotinylated Human IgG (μg/mL)	Mean OD	0.1	0.05	0.2	0.08	0.5	0.12	1.0	0.20	2.0	0.38	5.0	0.55	10.0	0.72	20.0	0.82	50.0	0.95	100.0	0.98	200.0	1.00
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SEC-MALS



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