

Recombinant Human FCGRT Protein, Ala24-Ser297, C-6xHis 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.

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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

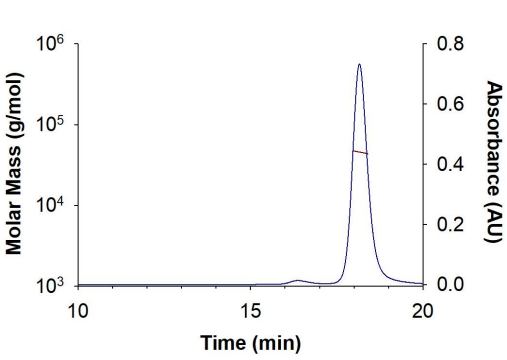
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Gene ID	2217
mRNA Refseq	NM_004107
Protein Refseq	NP_004098
MIM	601437
UniProt ID	P55899

SEC-MALS



SEC-MALS Data	Result
Retention Time	18.0 - 18.4 min
MW - Predicted (Monomer)	31 kDa (FCRN), 10 kDa (β2 Microglobulin)
MW - MALS	45.6 kDa
Polydispersity	1.000
System Suitability: BSA Monomer 66.4 ± 3.32 kDa	Pass

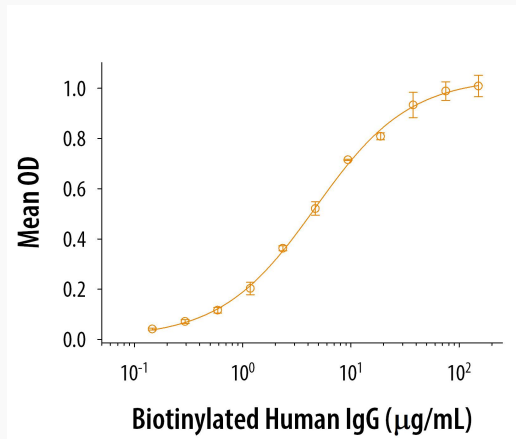
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Bioactivity



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