

FCRN/FCGRT&B2M active protein

Recombinant human FCRN/FCGRT&B2M protein

CATALOG # AAA48991	HOST HEK293	APPLICATIONS SDS-Page
------------------------------	-----------------------	---------------------------------

PRODUCT SYNONYMS

FCRN/FCGRT&B2M; Recombinant human FCRN/FCGRT&B2M protein; FCGRT; IgG Fc fragment receptor transporter alpha chain; IgG receptor FcRn large subunit p51 isoform1; Fcgrt; FcRn; Fc gamma receptor and transporter; FcgammaRn; Transmembrane alpha chain of the neonatal receptor; Neonatal Fc receptor; FCRN; alpha-chain; Beta-2-microglobulin; IMD43; CDABP0092; HDCMA22P; FCRN/FCGRT&B2M active protein

PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	24-297aa (FCGRT), 21-119aa (B2M)
Sequence	Ala24,Ile2 1 FCGRT >AESHLSLLY HLTAVSSPAP GTPAFWVSGW LGPQQYLSYN SLRGEAEPCG AWWWENQVSW YWEKETDRLR IKEKLFLEAF KALGGKGPYT LQGLLGCELG PDNTSVPTAK FALNGEEFMN FDLKQGTWGG DWPEALAIQ RWQQQDKAAN KELTFLLFSC PHRLREHLER GRGNLEWKEP PSMRLKARPS SPGFSVLTC AFSFPPELQ LRFLRNLGAA GTGQGDFGN SDGSFHASS LTVKSGDEHH YCCIVQHAGL AQPLRVELES PAKSS B2M >IQRTPKIQV YSRHPAENGK SNFLNCYVSG FHPSDIEVDL LKNGERIEKV EHSDFSFSKD WSFYLLYYTE FTPTEKDEYA CRVNHVTLISQ PKIVKWDRDM
Applicable Applications for FCRN/FCGRT&B2M active protein	Bioactivity, SDS-PAGE
Species	Human
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Tag	His-Tag
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

ADDITIONAL INFORMATION

Related Product Information for FCRN/FCGRT&B2M active protein	FCRN/FCGRT, also known as IgG receptor FcRn large subunit p51, is an IgG Fc receptor which is similar in structure to the MHC class I molecule and also associates with beta-2-microglobulin. This protein is widely expressed in endothelial and epithelial cells and plays an important role in IgG homeostasis. Also, it is expressed in neutrophils and myeloid antigen presenting cells. It is present in the placenta where it transports mother's IgG to the growing fetus. In addition to binding to IgG, it has been shown to interact with human serum albumin. FCRN/FCGRT- mediated transcytosis of IgG across epithelial cells is possible because FCRN binds IgG at acidic pH but not at neutral or higher pH. B2M, also known as beta 2-Microglobulin, is a component of MHC class I molecules, Involved in the presentation of peptide antigens to the immune system. It is a protein found on the surface of many cells and plentiful on the surface of white blood cells. B2M associates not only with the alpha chain of MHC class I molecules, but also with class I-like molecules such as CD1, MR1, the neonatal Fc receptor (FCRN/FCGRT), and Qa-1. Recombinant human FCGRT fused to His-tag at C-terminus, and B2M was expressed in HEK293 cell and purified by using conventional chromatography techniques.
---	--

Product Categories/Family for FCRN/FCGRT&B2M active protein	Immunology , Cardiovascular ; Proteins
References	Akilesh, S. et al. (2008) Proc. Natl. Acad. Sci. 105:967-972. Morabito A., et al. (2009) Hum Immunol. 70:492-495.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P55899 ; P61769
Molecular Weight	31.1kDa (FCGRT, 280aa) 11.7kDa (B2M, 99aa)
UniProt Protein Name	IgG receptor FcRn large subunit p51
UniProt Gene Name	FCGRT
UniProt Synonym Gene Names	FCRN; FcRn
UniProt Entry Name	FCGRN_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/hek293-active-protein/fcrn-fcgrtb2m/48991>