

# Recombinant Human FcRn & B2M Heterodimer Protein (His Tag)



Catalog Number:PKSH032422

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

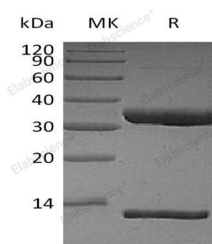
## Description

<b>Synonyms</b>	IgG receptor FcRn;Neonatal Fc receptor;FCRN
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ala24-Leu290&Ile21-Met 119
<b>Accession</b>	AAF72596&P61769
<b>Calculated Molecular Weight</b>	31.2&11.7 kDa
<b>Observed molecular weight</b>	13&37 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 50mM HEPES, 150mM NaCl, pH7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed m
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

FcRn complex consist of two subunits: IgG receptor FcRn large subunit p51 (α chain) and Beta-2-microglobulin (β2-microglobulin). The complexes is similar in structure to MHC class I-like heterodimer. Beta-2-microglobulin involved in the presentation of peptide antigens to the immune system. FcRn binds to the Fc region of monomeric immunoglobulins gamma, mediates the uptake of IgG from milk, Possible role in transfer of immunoglobulin G from mother to fetus. A principal component of antibody transport is the neonatal receptor for the Fc portion of immunoglobulin, a heterodimer of a MHC-1 alpha-chain homolog ( FcRn ) and beta-2-microglobulin ( B2M ).

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