

## FCGRT Protein, Human, Recombinant (His)

## General Information

Synonyms:	FcRn;IgG Fc fragment receptor transporter alpha chain;Neonatal Fc receptor;IgG receptor FcRn large subunit p51;FCGRT
Protein Construction:	24-297 aa
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P55899
Molecular Weight:	34.4 kDa (predicted)
AA Sequence:	AESHLSLLYHLTAVSSPAPGTPAFVWVSGWLGPQQYLSYNSLRGEAEPGAWVWENQVSWYWEKETDRLRIK EKLFLFAFKALGGKGPYTLQGLLGCELGPDNTSVPTAKFALNGEEFMNFDLKQGTWGGDWPEALAIQRWQ QQDKAANKELTFLFSCPHRLREHLERGRGNLEWKEPPSMRLKARPSSPGFSVLTCSAFSFPPELQLRFLRN GLAAGTGQGDGFPNSDGSFHASSSLTVKSGDEHHYCCIVQHAGLAQPLRVELESPAKSS

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

Cell surface receptor that transfers passive humoral immunity from the mother to the newborn. Binds to the Fc region of monomeric immunoglobulin gamma and mediates its selective uptake from milk. IgG in the milk is bound at the apical surface of the intestinal epithelium. The resultant FcRn-IgG complexes are transcytosed across

the intestinal epithelium and IgG is released from FcRn into blood or tissue fluids. Throughout life, contributes to effective humoral immunity by recycling IgG and extending its half-life in the circulation. Mechanistically, monomeric IgG binding to FcRn in acidic endosomes of endothelial and hematopoietic cells recycles IgG to the cell surface where it is released into the circulation. In addition of IgG, regulates homeostasis of the other most abundant circulating protein albumin/ALB.; (Microbial infection) Acts as an uncoating receptor for a panel of echoviruses including Echovirus 5, 6, 7, 9, 11, 13, 25 and 29.

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