

## Recombinant mouse FCGRT&B2M Heterodimer protein, C-His (HEK293)

Catalog Number: bs-43206P

Concentration: >0.5mg/ml

Species: Mouse

AA Seq: 22-297/365&21-119/119

Predicted MW: 33

Tags: C-His

Endotoxin: Not analyzed

Purity: >90% as determined by SDS-PAGE

Purification: affinity purified by Protein A

Form: Lyophilized or Liquid

Storage: PBS (pH7.4)

Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

**Background:** FcRn present in the intestinal epithelium of neonatal mice and rats mediates the selective uptake of immunoglobulin G (IgG) in mothers' milk, thereby helping newborn animals to acquire passive immunity. FcRn (also designated FCGRT, Brambell receptor, FcRn  $\alpha$  chain, IgG Gc receptor and neonatal Fc-receptor) is comprised of a heavy chain and  $\beta$ -2-Microglobulin. FcRn heavy chain shows approximately 35% amino acid identity to an MHC class I molecule. FcRn localizes in endosomes of vascular endothelial cells and selectively recycles IgG to the cell surface, thus protecting IgG from lysosomal catabolism. This protection mechanism is a major constituent for ensuring IgG are the longest lived of all plasma proteins.

### VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.