FcRn (FCGRT/B2M) Blocker

Catalog: 101468 Lot: 230908

Product Information

Description: The FcRn (FCGRT/B2M) Blocker (Fc-Tag) is a recombinant human protein corresponding

to the Fc region of an antibody which has been engineered to bind to the human neonatal Fc Receptor of IgG (FcRn; FCGRT/B2M) with high affinity. This protein has been tested for specific binding to human FcRn (BPS Bioscience #71283) and it blocks the binding of FcRn to IgG. The FcRn blocker is comparable to Efgartigimod alfa-fcab. This

protein was affinity purified.

Background: Neonatal Fc receptor for IgG (FcRn) is a heterodimeric protein consisting of the Fc

Gamma Receptor and Transporter encoded by the FCGRT gene, associated with beta-2-Microglobulin (B2M). FcRn binds to the Fc region of monomeric immunoglobulin G (IgG). FcRn contributes to an effective humoral immunity by protecting IgGs from degradation, recycling them and extending their half-life in circulation. In addition to IgGs, it regulates the homeostasis of serum albumin. The loss of FcRn in tumor cells has been reported to play a role in cancer by increasing the breakdown of albumin to amino acids needed by tumor cells for proliferation. -The function of FcRn can be exploited by engineering therapeutic antibodies to increase their binding to FcRn, thereby improving their half-life and therapeutic efficacy. For example, an antibody cocktail that contains Fc mutations and an extended half-life (Evusheld) is used to treat COVID-19. There are

now several other drugs in clinical using similar strategies.

Species:HumanConcentration:0.77 mg/mlExpression System:HEK293Purity:≥90%

Format: Aqueous buffer solution.

Formulated In: 8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol

MW: 26 kDa + glycans

Glycosylation: This protein runs at a higher MW by SDS-PAGE due to glycosylation.

Stability: At least 12 months at -80°C.

Storage: -80°C

Instructions for Use: Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before

opening. Aliquot into small volumes and flash freeze for long term storage. Avoid

multiple freeze/thaw cycles.

Assay Conditions: Assay was done according to Fc (IgG1): FcRn Inhibitor Screening Colorimetric Assay Kit

(BPS Bioscience #78501).

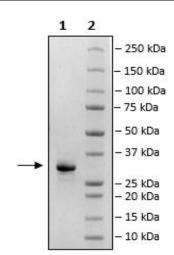
Applications: Useful for FcRn binding assays and blocking FcRn binding to IgG.



Catalog: 101468 Lot: 230908

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



Fc(IgG1):FcRn-Biotin Interaction

