

General Information

Gene Name Synonym

FcRn; IgG Fc fragment receptor transporter alpha chain; Neonatal Fc receptor

Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Ser 297) of human FCGRT (P55899) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the human B2M (P61769) (Met 1-Met 119) constructed the plasmid 2. The two plasmids were co-expressed and the FCGRT / B2M heterodimer was purified.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to bind human IgG1 in a functional ELISA.

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Ala 24 & Ile 21

Molecular Mass

The recombinant heterodimer of human FCGRT/B2M comprises 385 (285 + 100) amino acids and has a calculated molecular mass of 43.5 (31.8 + 11.7) kDa. The apparent molecular mass of rh FCGRT/B2M heterodimer is approximately 35 & 12 kDa respectively in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

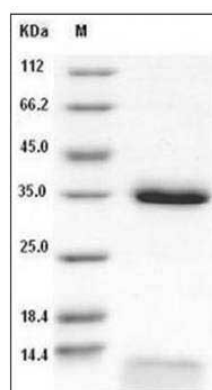
Storage

Store it under sterile conditions at -20°C to -80°C . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human FCGRT & B2M Heterodimer Protein SDS-

Human FCGRT & B2M recombinant protein



Catalog Number: 504607

PAGE