

Recombinant Human SIRP-gamma/CD172g Protein

Catalog No.: RP00310 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 55423 09P1W8

Tags

C-His&Avi

Synonyms

CD172g; FLJ42230; SIRP beta 2; SIRP gamma; SIRP-B2; SIRPG; Cripto-1;

bA77C3.1; SIRP β 2

Product Information

Source

HEK293 cells

Purification
≥ 95 % as
determined by SDSPAGE;≥ 95 % as
determined by
HPLC.

Calculated MW Observed MW

39.7 kDa 45-52 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Signal regulatory protein gamma (SIRP gamma, designated CD172g), also called SIRP beta 2, is a monomeric 45-47 kDa type I transmembrane protein belonging to the SIRP/SHPS (CD172) family of the Ig superfamily.SIRP gamma is probable immunoglobulin-like cell surface receptor. On binding with CD47, mediates cell-cell adhesion. Engagement on T-cells by CD47 on antigen-presenting cells results in enhanced antigen-specific T-cell proliferation and costimulates T-cell activation.

Basic Information

Description

Recombinant Human SIRP-gamma/CD172g Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu29-Pro360) of Human SIRP-gamma/CD172g (Accession #Q9P1W8) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

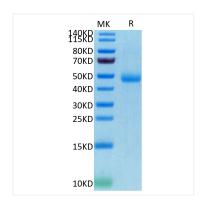
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

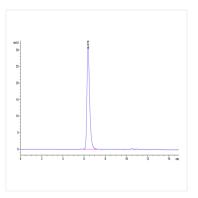
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

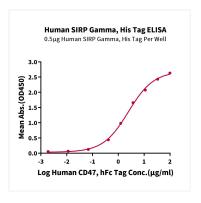
Validation Data



Recombinant Human SIRP-gamma/CD172g Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human SIRP Gamma is greater than 95% as determined by SEC-HPLC. $\label{eq:second}$



Immobilized Human SIRP Gamma, His Tag at 5 μ g/mL (100 μ L/well) on the plate. Dose response curve for Human CD47, hFc Tag with the EC₅₀ of 2.46 μ g/mL determined by ELISA.