

Recombinant Human SIRP-gamma/CD172g Protein

Catalog No.: RP00310

Sequence Information

Species	Gene ID
Human	55423
Swiss Prot	Tags
Q9P1W8	C-His&Avi

Synonyms

CD172g; FLJ42230; SIRP beta 2;
SIRP gamma; SIRP-B2; SIRPG;
Cripto-1; bA77C3.1; SIRP β 2

Product Information

Source	Purification
HEK293 cells	$\geq 95\%$ as determined by SDS-PAGE; $\geq 95\%$ as determined by HPLC.

Calculated MW	Observed MW
39.7 kDa	45-52 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from 0.22 μ m 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

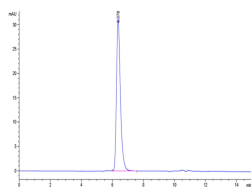
Operational Notes

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

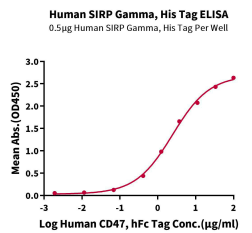
Contact

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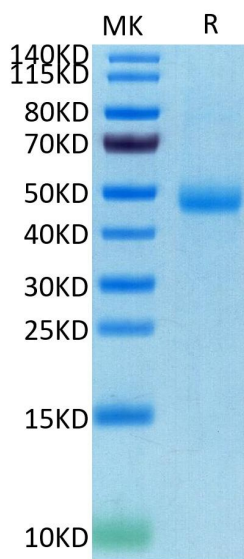
Validation Data



The purity of Human SIRP Gamma is greater than 95% as determined by SEC-HPLC.



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



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