

SIRP gamma Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	SIRP β 2; bA77C3.1; SIRP γ /CD172g; SIRP beta 2; SIRP-B2; SIRP γ ; FLJ42230; Cripto-1; SIRP β 2; SIRP gamma; SIRPG; CD172g
Protein Construction:	Glu29-Pro360
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9P1W8
Molecular Weight:	39.7 kDa (predicted). Due to glycosylation, the protein migrates to 48-53 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Biotinylated Human SIRP Gamma, His Tag at 1 μ g/ml (100 μ l/well) on the streptavidin precoated plate (5 μ g/ml). Dose response curve for Human CD47, hFc Tag with the EC50 of 0.27 μ g/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

A DRUG SCREENING EXPERT

Engagement on T-cells by CD47 on antigen-presenting cells results in enhanced antigen-specific T-cell proliferation and costimulates T-cell activation.

Reference

Piccio, L. Adhesion of human T cells to antigen-presenting cells through SIRP beta2-CD47 interaction costimulates T-cell proliferation[J]. Blood, 2005, 105(6):2421-2427.

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