

# Recombinant Human CD172a/SIRPA Protein (mFc Tag)

Catalog Number:PKSH033524

1 Publications



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

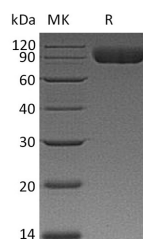
## Description

<b>Synonyms</b>	Tyrosine-Protein Phosphatase Non-Receptor Type Substrate 1;SHP Substrate 1;SHPS-1;Brain Ig-Like Molecule with Tyrosine-Based Activation Motifs;Bit;CD172 Antigen-Like Family Member A;Inhibitory Feceptor SHPS-1;Macrophage Fusion Receptor;MyD-1 Antigen;Signal-Regulatory Protein Alpha-1;Sirp-Alpha-1;Signal-Regulatory Protein Alpha-2;Sirp-Alpha-2;Signal-Regulatory Protein Alpha-3;Sirp-Alpha-3;p84;CD172a;SIRPA;BIT;MFR;MYD1;PTPNS1;SHPS1;SIRP
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Glu31-Arg370
<b>Accession</b>	CAA71403.1
<b>Calculated Molecular Weight</b>	64.5 kDa
<b>Observed molecular weight</b>	80-120 kDa
<b>Tag</b>	C-mIgG2a Fc

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 500mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed man
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Signal Regulatory Protein  $\alpha$  (SIRP $\alpha$ ) is a monomeric approximately 90 kD type I transmembrane glycoprotein. The 504 amino acid human SIRP $\alpha$  contains two Ig-like C1-type domains and one Ig-like V-type domain. SIRP $\alpha$  can express in

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various tissues, mainly on brain and myeloid cells, including macrophages, neutrophils, dendritic and Langerhans cells. It also can detect in neurons, smooth muscle and endothelial cells. SIRPA is an immunoglobulin-like cell surface receptor for CD47. SIRP $\alpha$  acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRP $\alpha$  shows adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. SIRP $\alpha$  engagement generally produces a negative regulatory signal; it may mediate negative regulation of phagocytosis, mast cell activation and dendritic cell activation.

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