

## Recombinant Human SIRPA Protein, His\Avi-tagged

Cat. No. SIRPA-195H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Biotinylated Recombinant Human Signal-Regulatory Protein Alpha 1 is produced by our Mammalian expression system and the target gene encoding Glu31-Arg370 is expressed with a 6His, Avi tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>Description</b>	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 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.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
<b>Molecular Mass</b>	Predicted Molecular Weight: 39.9kDa Apparent Molecular Weight: 50-80kDa, reducing conditions.

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<b>AA Sequence</b>	Glu31-Arg370
<b>Endotoxin</b>	Less than 0.1 ng/ug (1 EU/ug).
<b>Purity</b>	>95%
<b>Storage</b>	<p>Lyophilized protein should be stored at &lt; -20 centigrade, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20 centigrade for 3 months.</p> <p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p>
<b>Reconstitution</b>	<p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
<b>Quality Statement</b>	Purity: greater than 95% as determined by reducing SDS-PAGE.
<b>Shipping</b>	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>

## GENE INFORMATION

<b>Gene Name</b>	SIRPA signal regulatory protein alpha [ Homo sapiens (human) ]
<b>Official Symbol</b>	SIRPA
<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-

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Regulatory Protein Alpha-2; Sirp-Alpha-2; Signal-Regulatory Protein Alpha-3; Sirp-Alpha-3; p84; CD172a; BIT; MFR; MYD1; PTPNS1; P84; SIRP; MYD-1; SHPS1; CD172A

**Gene ID**

140885

**mRNA Refseq**

NM\_001040022.1

**Protein Refseq**

NP\_001035111.1

**MIM**

602461

**UniProt ID**

P78324

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