

Recombinant Human SIRPA Protein, His\Avi-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
Description	Signal Regulatory Protein α (SIRP α) is a monomeric approximately 90 kD type I transmembrane glycoprotein. The 504 amino acid human SIRP α contains two Ig-like C1-type domains and one Ig-like V-type domain. SIRP α 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 α acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRP α shows adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. SIRP α engagement generally produces a negative regulatory signal; it may mediate negative regulation of phagocytosis, mast cell activation and dendritic cell activation.
Form	Lyophilized from a 0.2 μ m filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Molecular Mass	Predicted Molecular Weight: 39.9kDa Apparent Molecular Weight: 50-80kDa, reducing conditions.

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