

Recombinant Human SIRPA protein, His-tagged

Cat. No. SIPRA-4843H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIRPA(Glu31-Arg370) fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Glu31-Arg370
Description	Signal Regulatory Protein α (SIRPα) is a monomeric approximately 90 kD type I transmembrane glycoprotein. The 504 amino acid human SIRPα contains two Ig-like C1-type domains and one Ig-like V-type domain. SIRPα 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. SIRPα acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPα shows adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. SIRPα 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 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
AA Sequence	EEELQVIQPDKSVSVAAGESAILHCTVTSVIPVGPIQWFRGAGPARELIYNQKEGHFP

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RVTTVSE STKRENMDFSISISNITPADAGTYCYVKFRKGSPTDFKSGAGTELSVRA
 KPSAPVVSGPAARAT PQHTVSFTCESHGFSPRDITLKWFKNGNELSDFQTNVDPV
 GESVSYSIHSTAKVVLTRDVDHSQV ICEVAHVTLQGDPLRGDTANLSETIRVPPTLEV
 QQPVRAENQVNVTCQVRKFYPQRLQLTWLENG NVSRTETASTVTENKDGTYNWM
 SWLLVNVSAHRDDVKLTCQVEHDGQPAVSKSHDLKVSAHPKEQ GSNTAAENTGS
 NERNVDHHHHHH

Endotoxin Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.

Purity Greater than 95% as determined by reducing SDS-PAGE.

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.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
 It is not recommended to reconstitute to a concentration less than 100 µg/ml.
 Dissolve the lyophilized protein in ddH₂O.
 Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name SIRPA signal-regulatory protein alpha [Homo sapiens]

Official Symbol SIRPA

Synonyms SIRPA; signal-regulatory protein alpha; protein tyrosine phosphatase, non receptor type substrate 1 , PTPNS1; tyrosine-protein phosphatase non-receptor type substrate

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1; BIT; CD172a; MFR; MYD 1; P84; SHPS 1; SHPS1; SIRP; SIRP ALPHA 1; SIRPalpha; SIRPalpha2; myd-1 antigen; inhibitory receptor SHPS-1; macrophage fusion receptor; CD172 antigen-like family member A; tyrosine phosphatase SHP substrate 1; brain-immunoglobulin-like molecule with tyrosine-based activation motifs; MYD-1; CD172A; PTPNS1;

Gene ID [140885](#)

mRNA Refseq [NM_001040022](#)

Protein Refseq [NP_001035111](#)

MIM [602461](#)

UniProt ID [P78324](#)

