

## Active Recombinant Human SIRPA protein(Met1-Arg369(S44L, S50T, I52T, H54R, V57A)), His-tagged

Cat. No. SIRPA-3306H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human SIRP alphaV8 (AAH38510.1, with mutation Ser 44 Leu, Ser 50 Thr, Ile 52 Thr, His 54 Arg, Val 57 Ala) (Met1-Arg369) was expressed in HEK293 with a polyhistidine tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Met1-Arg369(S44L, S50T, I52T, H54R, V57A)
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. Immobilized human CD47 at 2 µg/ml (100 µl/well) can bind human SIRPa(V8)-His, the EC50 of human SIRPa(V8)-His is 150-500 ng/mL.
<b>Molecular Mass</b>	The recombinant human SIRP alphaV8 consists of 350 amino acids and predicts a molecular mass of 38.6 kDa. As a result of glycosylation, it migrates as an approximately 49.9 kDa band in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.

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**Storage** Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## 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 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](#)

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