

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

Cat. No. SIRPA-1389H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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 the Fc region of Mouse IgG2a at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met1-Arg369(S44L, S50T, I52T, H54R, V57A)
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Human CD47-His at 2 µg/ml (100 µl/well) can bind Human SIRPa(V8)-mFc, the EC50 of Human SIRPa(V8)-mFc is 2-14 ng/mL.
Molecular Mass	The recombinant Human SIRP alphaV8 consists of 572 amino acids and predicts a molecular mass of 63.6 kDa. As a result of glycosylation, it migrates as an approximately 80.4 kDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 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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