

Recombinant Human SIRPA protein(Met1-Arg370), hFc&Avi-tagged, Biotinylated

Cat. No. SIRPA-2388H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIRPA (NP_542970.1) (Met1-Arg370) was expressed in HEK293 with a c-terminal AVI tagged Fc region of Human IgG1 at the C-terminus (Fc-AVI). The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.
Species	Human
Source	HEK293
ProteinLength	Met1-Arg370
Conjugation/Label	Biotin
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 SIRP alpha (hFc & AVI Tag), Biotinylated, the EC50 of Human SIRP alpha (hFc & AVI Tag), Biotinylated is 25-150ng/mL.
Molecular Mass	The recombinant human SIRPA consists of 593 amino acids and predicts a molecular mass of 65.85 kDa. It migrates as an approximately 84.19 kDa band in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
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.
Conjugation	Biotin

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

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Protein Refseq	NP_001035111
MIM	602461
UniProt ID	P78324

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