Active Recombinant Human SIRPA protein, mFc-tagged

Cat. No. SIRPA-808H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIRPA protein(Glu 31 - Arg 370), fused with mFc tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Glu 31 - Arg 370
Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human CD47, His Tag at 2 μg/mL (100 μL/well) can bind Human SIRP alpha, Mouse IgG1 Fc Tag with a linear range of 4-31 ng/mL. Serial dilutions of Anti-Human CD47 Neutralizing Antibody were added into Human SIRP alpha, Mouse IgG1 Fc Tag: Biotinylated Human CD47, Fc,Avitag binding reactions. The half maximal inhibitory concentration (IC50) is 0.2006 μg/mL.
Molecular Mass	This protein carries a mouse IgG1 Fc tag at the C-terminusThe protein has a calculated MW of 63.0 kDa. The protein migrates as 70-105 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.

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Storage	For long term, the product should be stored at lyophilized state at -20°C or lower.Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
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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