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**Product Data Sheet**


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Product Name: SIRPA Rat  
 Cat. No.: GP24588  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

**Synonyms** Tyrosine-protein phosphatase non-receptor type substrate 1; SHP substrate; SHPS-1; Brain Ig-like molecule with tyrosine-based activation motifs; Bit; CD172 antigen-like family member A; Inhibitory receptor SHPS-1; Macrophage fusion receptor; Macrophage membrane protein MFP150; Signal-regulatory protein alpha-1; Sirp-alpha-1; CD172a; Sirpa; Bit; Mfr; Ptpns1; Shps1; Sirp.

**Amino Acid Sequence**  
 KELKVTQADK SVSVAAGDSA TLNCTVSSLT PVGPIKWFKG  
 EGQNRSPIYSFIGGEHFPRI TNVSDATKRN NMDFSICISN VTPEDAGTYY  
 CVKFQKGIVE PDTEIKSGGG TLYVLAKPSSPEVSGPDSR GSPGQTVNFT  
 CKSYGFSPRN ITLKWLKNGK ELSHLETTIS SKSNVSYNIS STVSVKLSPE  
 DIHSRVICEVAHVTLGRPL NGTANFSNII RVSPTLKITQ QPLTPASQVN  
 LTCQVQKFYP KALQLNWLEN GNLSRTDKPE HFTDNRDGTNYTSLFLVNS  
 SAHREDVVFT CQVEHDSQPA ITENHTVRAF AHSSSGGSME TIPDNNAYYN  
 WNVEHHHHHH.

**Formulation** SIRPA protein solution (0.5mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Introduction**

Signal-Regulatory Protein Alpha, SIRPA belongs to the signal-regulatory-protein (SIRP) family, as well as the immunoglobulin super family. The members of the SIRP family are receptor-type transmembrane glycoproteins which are involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. SIRPA can be phosphorylated by tyrosine kinases. The phospho-tyrosine residues of this PTP have been shown to recruit SH2 domain containing tyrosine phosphatases (PTP), and perform as substrates of PTPs. SIRPA take part in signal transduction mediated by a variety of

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growth factor receptors. CD47 has been shown to be a ligand for SIRPA.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SIRPA Rat Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 350 amino acids (32-373a.a) and having a molecular mass of 38.5kDa. (Migrates at 57-70kDa on SDS-PAGE under reducing conditions). SIRPA is fused to an 8 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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