
Product Data Sheet

Product Name: SIRPA Human
 Cat. No.: GP24587
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms
 Signal-Regulatory Protein Alpha; SHPS1; CD172Antigen-Like Family Member A; Inhibitory Receptor SHPS-1; Macrophage FusionReceptor; PTPNS1; SIRP; P84; BIT; MFR; Brain-Immunoglobulin-Like Molecule With Tyrosine-BasedActivation Motifs; Brain Ig-Like Molecule With Tyrosine-Based ActivationMotifs; Protein Tyrosine Phosphatase; Non-Receptor Type Substrate 1; Tyrosine-ProteinPhosphatase Non-Receptor Type Substrate 1; Tyrosine Phosphatase SHP Substrate1; Signal-Regulatory Protein Alpha-1 ; ignal-Regulatory Protein Alpha-2; Signal-RegulatoryProtein Alpha-3; SHP Substrate 1; CD172a Antigen; Myd-1 Antigen; MyD-1 Antigen;Sirp-Alpha-1; Sirp-Alpha-2; Sirp-Alpha-3; CD172A; SHPS-1; MYD-1; MYD1; Tyrosine-proteinphosphatase non-receptor type substrate 1.

Amino Acid Sequence
 MGSSHHHHHH SGLVPRGSH MSGVAGEEE LQVIQPKSV LVAAGETATL
 RCTATSLIPV GPIQWFRGAGPGRELIYNQK EGHFPRVTTV SDLTKRNNMD
 FSIRIGNITP ADAGTYICVK FRKGSPDDVE FKSGAGTELSVRAKPSAPVV
 SGPAARATPQ HTVSFTCESH GFSPRDITLKWFKNGNELSD FQTNVDPVGE
 SVSYSIHSTA KVVLTREDVH SQVICEVAHVTLQGDPLRGT ANLSETIRVP
 PTLEVTQQPV RAENQVNVTC QVRKFYPQRL QLTWLENGNV
 SRTETASTVTENKDGTYNWM SWLLVNVSAH RDDVKLTCQV EHDGQPAVSK
 SHDLKVSAHP KEQGSNTAAENTGSNERNIY.

Formulation
 SIRPA protein solution (0.5mg/ml) containing PBS buffer(pH 7.4), 10% glycerol and 1mM DTT.

Introduction

Signal-Regulatory Protein Alpha, SIRPA belongs to the signal-regulatory-protein (SIRP)

Caution: Product has not been fully validated for medical applications. For research use only.

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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 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 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 370 amino acids (27-373 a.a) and having a molecular mass of 40.4kDa. SIRPA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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