
Product Data Sheet

Product Name: SIRPA Human, HEK

Cat. No.: GP26337

Batch No.: 1

Product Data

Purity >98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Tyrosine-protein phosphatase non-receptor type substrate 1 isoform 1, SHP substrate 1, SHPS-1, Brain Iglike molecule with tyrosine-based activation motifs, Bit, CD172 antigen-like family member A, MYD1, PTPNS1, SHPS1, SIRP, Inhibitory receptor SHPS-1, Macrophage fusion receptor, MyD-1 antigen, Signal-regulatory protein alpha-1, Sirp-alpha-1, Signalregulatory protein alpha-2, Sirp-alpha-2, Signal-regulatory protein alpha-3, Sirp-alpha-3, p84, CD172a, BIT, MFR.

Amino Acid Sequence
 DGSGVAGEEE LQVIQPKSV LVAAGETATL RCTATSLIPV GPIQWFRGAG
 PGRELIYNQK EGHFPRVTTV SDLTKRNNMD FSIRIGNITP ADAGTYICVK
 FRKGSPDDVE FKSGAGTELS VRAKPSAPVV SGPAARATPQ HTVSFTCESH
 GFSPRDITLK WFKNGNELSD FQTNVDPVGE SVSYSIHSTA KVVLTREDVH
 SQVICEVAHV TLQGDPLRGT ANLSETIRVP PTLVETQQPV RAENQVNVTC
 QVRKFYPQRL QLTWLENGNV SRTETASTVT ENKDGTYNWM SWLLVNVSAH
 RDDVKLTCQV EHDGQPAVSK SHDLKVS AHP KEQGSNTAAE NTGSNERNIY
 HHHHHH.

Formulation The SIRPA solution (1mg/ml) contains 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

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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.

Biological Activity

Measured by its binding ability in a functional ELISA with Human CD47.

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 HEK293 cells is a single, glycosylated polypeptide chain (27-373a.a) containing 356 amino acids and having a molecular mass of 39kDa. SIRPA is fused to a 6 amino acid His-tag at C-terminus, and is purified by proprietary chromatographic techniques.

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