

Recombinant Human SIPRA, Fc-tagged

Cat. No. SIPRA-4837H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIRPA /CD172a Protein, With C-Fc Tag (rhCD172a / SIRP-A Fc Chimera) Glu 31 - Arg 370 was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	31-370 a.a.
Description	The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein 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 serve as substrates of PTPs. This protein was found to participate in signal transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein. This gene and its product share very high similarity with several other members of the SIRP family. These related genes are located in close proximity to each other on chromosome 20p13. Multiple alternatively spliced transcript variants have been determined for this gene.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM tris, 100 mM glycine, pH7.0. Normally Mannitol or Trehalose are added as protectants before lyophilization.

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Molecular Mass	rhCD172a / SIRP-A Fc Chimera, fused with Fc fragment of human IgG1 at the C-terminus, has a calculated MW of 63.5 kDa. The predicted N-terminus is Glu 31. DTT-reduced Protein migrates as 70-105 kDa due to glycosylation.
Endotoxin	Less than 1.0 EU per µg of the rhCD172a / SIRP-A Fc Chimera by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4oC-8oC); After reconstitution under sterile conditions for 1 month (4oC-8oC) or 3 months (-20oC to -70oC).
Reconstitution	See Certificate of Analysis for details of reconstitution instruction and specific concentration.

GENE INFORMATION

Gene Name	SIRPA signal-regulatory protein alpha [Homo sapiens (human)]
Official Symbol	SIRPA
Synonyms	SIRPA; BIT; MFR; P84; SIRP; MYD-1; SHPS1; CD172A; PTPNS1; signal-regulatory protein alpha; tyrosine-protein phosphatase non-receptor type substrate 1; 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; NP_001035111.1; EC 3.1.3.48; NP_001035112.1; NP_542970.1
Gene ID	140885
mRNA Refseq	NM_001040022

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Protein Refseq	NP_001035111
MIM	602461
UniProt ID	P78324
Chromosome Location	20p13
Pathway	BDNF signaling pathway; Cardiac Progenitor Differentiation; Cell-Cell communication
Function	SH3 domain binding

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