Recombinant human SIRP alpha/CD172a protein

Catalog Number: ATGP2811

PRODUCT INFORMATION

Expression system
E.coli

Domain
27-373aa

UniProt No.
P78324

NCBI Accession No.
NP_542970.1

Alternative Names
Tyrosine-protein phosphatase non-receptor type substrate 1, BIT, CD172A, MFR, MYD-1, P84, PTPNS1, SHPS1, SIRP

PRODUCT SPECIFICATION

Molecular Weight
40.4 kDa (370aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
SIRPA 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. It was found to participate in signal

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transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein. Recombinant human SIRPA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

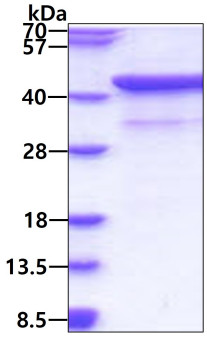
<MGSSHHHHHH SSGLVPRGSH MGS>GVAGEEE LQVIQPDKSV LVAAGETATL RCTATSLIPV GPIQWFRGAG PGRELIYNQK EGHFPRVTTV SDLTKRNNMD FSIRIGNITP ADAGTYYCVK FRKGSPDDVE FKSGAGTELS VRAKPSAPVV SGPAARATPQ HTVSFTCESH GFSPRDITLK WFKNGNELSD FQTNVDPVGE SVSYSIHSTA KVVLTREDVH SQVICEVAHV TLQGDPLRGT ANLSETIRVP PTLEVTQQPV RAENQVNVTC QVRKFYPQRL QLTWLENGNV SRTETASTVT ENKDGTYNWM SWLLVNVSAH RDDVKLTCQV EHDGQPAVSK SHDLKVSAHP KEQGSNTAAE NTGSNERNIY

General References

Timms J.F., Swanson K.D., et al. (1999) Curr. Biol. 9:927-930.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.