

# Recombinant rat SIRP alpha/CD172a protein

Catalog Number: ATGP3253

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

32-373aa

### UniProt No.

P97710

### NCBI Accession No.

NP\_037148

### Alternative Names

Bit, Ptpns1, SHPS-1, Sirpa

## PRODUCT SPECIFICATION

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### Molecular Weight

38.5 kDa (350aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

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### Description

SIRPA, also known as tyrosine-protein phosphatase non-receptor type substrate 1, is an immunoglobulin-like cell surface receptor for CD47. It supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment. It may play a key role in intracellular signaling during synaptogenesis and in synaptic function. It is involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell

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adhesion, growth factors or insulin. Recombinant rat SIRPA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

KELKVTQADK SVSVAAGDSA TLNCTVSSLT PVGPIKWFKG EGQNRSPIYS FIGGEHFPRI TNVSDATKRN NMDFSICISN  
VTPEDAGTY CVKFQKGIVE PDTEIKSGGG TTYLVLAKPS SPEVSGPDSR GSPGQTVNFT CKSYGFSPRN ITLKWLKNGK  
ELSHLETTIS SKSNVSYNIS STVSVKLSPE DIHSRVICEV AHVTLEGRPL NGTANFSNII RVSPTLKITQ QPLTPASQVN  
LTCQVQKFYP KALQLNWLEN GNLRTDKPE HFTDNRDGTY NYTSLFLVNS SAHREDVVFT CQVEHDSQPA ITENHTVRAF  
AHSSSGGSME TIPDNNAYYN WN<VEHHHHHH>

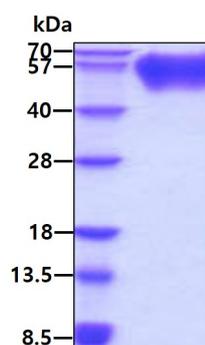
## General References

Fujioka Y., et al. (1996) Mol Cell Biol. 16:6887-6899.

Sano S., et al. (1997) FEBS Lett. 411:327-334.

## DATA

### SDS-PAGE



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