

# Recombinant human SIRP gamma/CD172g protein

Catalog Number: ATGP4030

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

29-360aa

### UniProt No.

Q9P1W8

### NCBI Accession No.

NP\_061026.2

### Alternative Names

Signal-regulatory protein gamma isoform 1, SIRPG, bA77C3.1, CD172g, SIRP-B2, SIRPB2, SIRPgamma

## PRODUCT SPECIFICATION

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### Molecular Weight

64 kDa (574aa)

### Concentration

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

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Biological Activity

Measured by its binding ability in a functional ELISA with Human CD47 (CAT# ATGP4015). The ED50 range  $\leq$  1 ug/ml.

### Tag

hIgG-His-Tag

### Application

SDS-PAGE, Bioactivity

### 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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# Recombinant human SIRP gamma/CD172g protein

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## Description

SIRPG, also known as signal-regulatory protein gamma isoform 1, is a member of a closely related family of three cell surface receptors implicated in modulating immune/inflammatory responses. It is the only SIRP known to be expressed on T cells, CD56 bright NK cells and activated NK cells. Expression of SIRPG on T cells suggests a role as an accessory protein interacting with CD47-expressing antigen presenting cells. Engagement of CD47 by SIRPG was shown to induce apoptosis on T-cell and monocyte cell lines. Recombinant human SIRPG, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

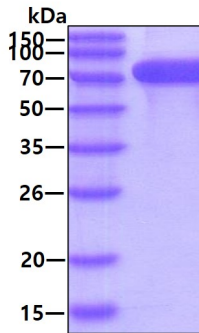
<ADP>EEELQMI QPEKLLLVTV GKTATLHCTV TSLLPVGPVL WFRGVGPGRE LIYNQKEGHF PRVTTVSDLT KRNNMDFSIR  
 ISSITPADVG TYYCVKFRKG SPENVEFKSG PGTEMALGAK PSAPVVLGPA ARTTPEHTVS FTCESHGFSP RDITLKWFKN  
 GNELSDFQTN VDPTGQSVAY SIRSTARVVL DPWDVRSQVI CEVAHVTLQG DPLRGTANLS EAIRVPPTLE VTQQPMRVGN  
 QVNVTCQVRK FYPQSLQLTW SENGNVCQRE TASTLTENKD GTYNWTSWFL VNISDQRDDV VLTCQVKHDG QLAVSKRLAL  
 EVT VHQK DQS SDATP<LEPKS CDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV  
 DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSRDELT  
 KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPVLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK  
 SLSLSPGKHH HHHH>

## General References

Nettleship JE., et al. (2013) BMC Struct Biol. 13:13.  
 Brooke G., et al. (2004) J Immunol. 173:2562-2570.

## DATA

### SDS-PAGE



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

## Biological Activity

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Human CD47 (CAT# ATGP4015) is coated at 1 ug/ml (100 ul/well) can bind Human SIRP gamma/CD172g. The ED range  $\leq$  1 ug/ml.

