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Recombinant human SIRP gamma/CD172g protein

Catalog Number: ATGP4030

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

29-360aa

UniProt No.

09P1W8

NCBI Accession No.

NP 061026.2

Alternative Names

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

PRODUCT SPECIFICATION

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 ≤ 1 ug/ml.

Tag

hlgG-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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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

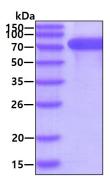
<ADP>EEELQMI QPEKLLLVTV GKTATLHCTV TSLLPVGPVL WFRGVGPGRE LIYNQKEGHF PRVTTVSDLT KRNNMDFSIR ISSITPADVG TYYCVKFRKG SPENVEFKSG PGTEMALGAK PSAPVVLGPA ARTTPEHTVS FTCESHGFSP RDITLKWFKN GNELSDFQTN VDPTGQSVAY SIRSTARVVL DPWDVRSQVI CEVAHVTLQG DPLRGTANLS EAIRVPPTLE VTQQPMRVGN QVNVTCQVRK FYPQSLQLTW SENGNVCQRE TASTLTENKD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



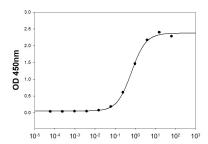
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

Biological Activity

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Human SIRP gamma/CD172g (ug/ml)



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.

