

SIRP gamma Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P77489
Synonyms:	Signal-Regulatory Protein Gamma; CD172 Antigen-Like Family Member B; Signal-Regulatory Protein Beta-2; SIRP-b2; SIRP-Beta-2; CD172g; SIRPG; SIRPB2
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_028684116 (E29-H360)
Gene ID:	716034
Molecular Weight:	Approximately 45 kDa

PROPERTIES

AA Sequence	<pre> E E E L Q M I Q P E K L L L V A V G E S A T L N C T V T S L L P V G P V L W F R G V G P G R E L I Y N Q K E G H F P R V T T V S D L T K R N N M D F S I R I S S I T P A D A G T Y Y C V K F R K G S P E N V E F K S G P G T E M A L R A K P S A P V V S G P A A R A T P E H T V S F T C K S H G F S P R D I T L K W F K N G N E L S D F Q T N V D P A G Q S V S Y S I R S T A R V V L A P W D V R S Q V T C E V A H V T L Q G D P L R G T A N L S E A I R V P P T L E V T Q Q P I R A G N Q V N I T Y Q V R N F Y P Q N L Q L T W L E N G N V C R T E T A S T L T E N K D G T Y N W T S W L L V N T S D Q R D D V V L T C Q V K H D G Q L A V N K S L V L E V S A H Q K D Q S S D A T H </pre>
Biological Activity	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells. The ED ₅₀ for this effect is 0.752 µg/mL in the presence of 5 µg/mL anti-CD3. Corresponding to a specific activity is 1.330×10 ³ Unit/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

SIRP gamma (SIRPG), a member of signal-regulatory protein (SIRP) family, is the only SIRP detected on T cells and activated NK cells. It emerges as a immunoglobulin-like cell surface receptor, demonstrating its role in mediating cell-cell adhesion upon binding with CD47. This interaction is pivotal in enhancing antigen-specific T-cell proliferation and providing costimulatory signals for T-cell activation. As a result, SIRP gamma engages with CD47 on antigen-presenting cells, highlighting its involvement in modulating immune responses. SIRP gamma-CD47 interaction mediates strong cell-cell adhesion and supports T cell-APC contact, enhancing antigen presentation and consequent T-cell proliferation and cytokine secretion^[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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