

SIRP gamma Protein, Human (HEK293, Fc)

Cat. No.:	HY-P71316
Synonyms:	Signal-Regulatory Protein Gamma; SIRP-Gamma; CD172 Antigen-Like Family Member B; Signal-Regulatory Protein Beta-2; SIRP-b2; SIRP-Beta-2; CD172g; SIRPG; SIRPB2
Species:	Human
Source:	HEK293
Accession:	Q9P1W8 (E29-P360)
Gene ID:	55423
Molecular Weight:	Approximately 80.0 kDa

PROPERTIES

AA Sequence	<pre> E E E L Q M I Q P E K L L L V T V G K T A T L H 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 V 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 G A K P S A P V V L G P A A R T T P E H T V S F T C E 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 T G Q S V A Y S I R S T A R V V L D P W D V R S Q V I 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 M R V G N Q V N V T C Q V R K F Y P Q S L Q L T W S E N G N V C Q R E T A S T L T E N K D G T Y N W T S W F L V N I S D Q R D D V V L T C Q V K H D G Q L A V S K R L A L E V T V H Q K D Q S S D A T P </pre>
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	The SIRP gamma protein emerges as a probable 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
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antigen-presenting cells, highlighting its involvement in modulating immune responses. The intricate interactions between SIRP gamma and CD47 underscore its significance as a cell surface receptor, playing a crucial role in cellular adhesion and the regulation of T-cell activation pathways.

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

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