

## SIRP beta 1 Protein, Human (HEK293, His-Myc)

<b>Cat. No.:</b>	HY-P700645
<b>Synonyms:</b>	Signal-regulatory protein beta-1; SIRP-beta-1; CD172 antigen-like family member B; CD172b; SIRPB1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	O00241 (E30-L371)
<b>Gene ID:</b>	10326
<b>Molecular Weight:</b>	41.3 kDa

### PROPERTIES

#### AA Sequence

E D E L Q V I Q P E	K S V S V A A G E S	A T L R C A M T S L	I P V G P I M W F R
G A G A G R E L I Y	N Q K E G H F P R V	T T V S E L T K R N	N L D F S I S I S N
I T P A D A G T Y Y	C V K F R K G S P D	D V E F K S G A G T	E L S V R A K P S A
P V V S G P A V R A	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	A G D S V S Y S I H	S T A R V V L T R G	D V H S Q V I C E I
A H I 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 A E N Q A N
V T C Q V S N F Y P	R G L Q L T W L E N	G N V S R T E T A S	T L I E N K D G T Y
N W M S W L L V N T	C A H R D D V V L T	C Q V E H D G Q Q A	V S K S Y A L E I S
A H Q K E H G S D I	T H E A A L A P T A	P L	

#### Appearance

Lyophilized powder.

#### Formulation

Lyophilized a 0.22 µm filtered solution of Tris-based buffer, 50% glycerol.

#### 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<sub>2</sub>O.

#### 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 beta 1 protein, an immunoglobulin-like cell surface receptor, plays a vital role in the negative regulation of receptor tyrosine kinase-coupled signaling processes. Additionally, it participates in the recruitment of the tyrosine kinase SYK, triggering the activation of myeloid cells when associated with TYROBP. Existing as a homodimer with disulfide linkages, SIRP beta 1 interacts specifically with TYROBP, leading to the recruitment of SYK. This intricate molecular interplay positions

---

SIRP beta 1 at the nexus of cellular signaling regulation, highlighting its significance in modulating myeloid cell activation and the intricate network of protein interactions that contribute to its functional role.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA