

## SIRP beta 1 Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	FLJ26614;9930027N05Rik;SIRP-beta;DKFZp686A05192;SIRP- $\beta$ -1 isoform 3;Sirpb1a;Sirpb;SIRP $\beta$ /CD172b;SIRP-beta-1 isoform 3;CD172b;SIRPB1;SIRP- $\beta$
Protein Construction:	Glu30-Ala369
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O00241-1
Molecular Weight:	40 kDa (predicted). Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

SIRP beta 1 is a type I transmembrane protein belonging to the SIRP family within the Ig superfamily. Members of this family are characterized by an extracellular region containing a V-set Ig domain containing a J-like sequence and two C1-set Ig domains. SIRP beta 1 is immunoglobulin-like cell surface receptor involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. Participates also in the recruitment of tyrosine

kinase SYK. Triggers activation of myeloid cells when associated with TYROBP.

Reference

Takizawa H, Manz M G. Macrophage tolerance: CD47-SIRP- $\alpha$ -mediated signals matter[J]. Nature Immunology, 2007, 8(12):1287-1289.

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