

# Human SIRP Beta/CD172b Protein

Cat. No. SRP-HM40B

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Human SIRP Beta/CD172b Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.<br>It contains Glu30-Ala369. |
| <b>Accession</b>        | O00241-1   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 40 kDa. Due to glycosylation, the protein migrates to 52-60 kDa based on Tris-Bis PAGE result.             |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.  |
| <b>Purity</b>           | > 95% as determined by Tris-Bis PAGE<br>> 95% as determined by HPLC  |

## Formulation and Storage

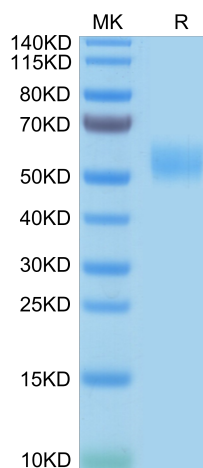
|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.  |
| <b>Storage</b>        | -20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## 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.

## Assay Data

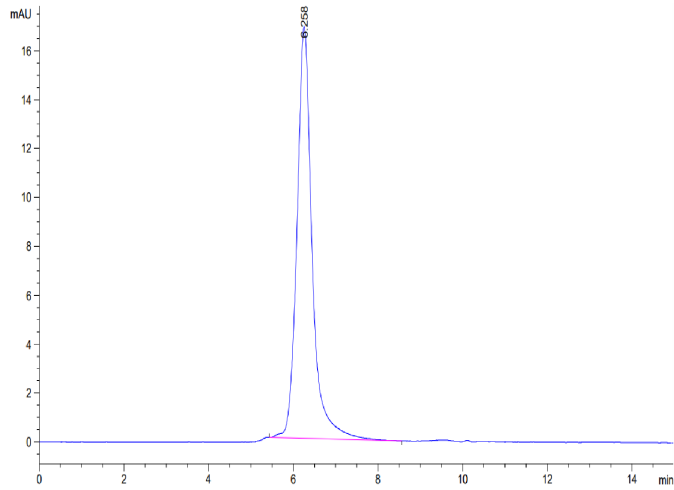
### Tris-Bis PAGE



Human SIRP Beta on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Human SIRP Beta is greater than 95% as determined by SEC-HPLC.