

**PRODUCT INFORMATION**

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|---|---|
| <b>Target</b>                           | SIRP $\alpha$   |
| <b>Synonyms</b>                         | BIT, MFR, P84, MYD1, SIRP, MYD-1, SHPS1, CD172A, PTPNS1   |
| <b>Description</b>                      | Recombinant Cynomolgus SIRP $\alpha$ protein with C-terminal human Fc tag   |
| <b>Delivery</b>                         | In Stock  |
| <b>Uniprot ID</b>                       | NP_001271679.1  |
| <b>Expression Host</b>                  | HEK293  |
| <b>Tag</b>                              | C-Human Fc tag  |
| <b>Molecular Characterization</b>       | SIRP $\alpha$ (Gly30-Asn370) hFc(Glu99-Ala330)  |
| <b>Molecular Weight</b>                 | The protein has a predicted molecular mass of 63.3 kDa after removal of the signal peptide.   |
| <b>Purity</b>                           | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.  |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.  |
| <b>Storage&amp;Shipping</b>             | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.   |
| <b>Sterility</b>                        | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 $\mu$ m) prior to use.  |
| <b>Background</b>                       | The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein can be phosphorylated by tyrosine kinases. The phospho-tyrosine residues of this PTP have been shown to recruit SH2 domain containing tyrosine phosphatases (PTP), and serve as substrates of PTPs. This protein was found to participate in signal transduction mediated by various growth factor receptors. CD47 has been demonstrated to be a ligand for this receptor protein. This gene and its product share very high similarity with several other members of the SIRP family. These related genes are located in close proximity to each other on chromosome 20p13. Multiple alternatively spliced transcript variants have been determined for this gene. [provided by RefSeq, Jul 2008] |
| <b>Usage</b>                            | Research use only   |



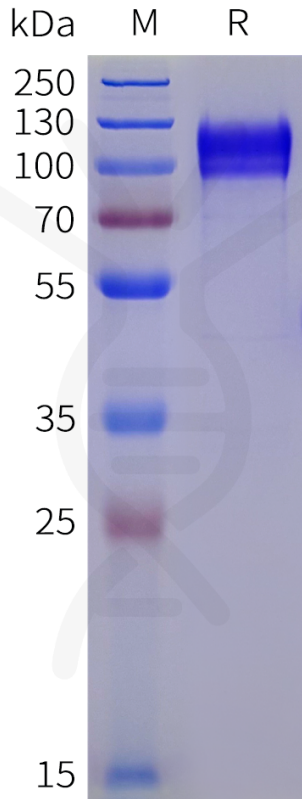


Figure 1. Cynomolgus SIRP $\alpha$  Protein, hFc Tag on SDS-PAGE under reducing condition.

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