

# Recombinant Human SIRP alphaV8 protein, His-Avi-tagged, Biotinylated

**Cat. No.** SIRP alphaV8-866HB    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Biotinylated Human SIRP alpha V8, His,Avitag is expressed from human 293 cells (HEK293). It contains AA Glu 31- Arg 369 (S44L, S50T, I52T, H54R, V57A) (Accession # ATD50864.1).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Glu 31- Arg 369                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>Tyrosine-protein phosphatase non-receptor type substrate 1 (SHPS1) is also known as CD172 antigen-like family member A (CD172a), Macrophage fusion receptor, MyD-1 antigen, Signal-regulatory protein alpha (SIRPA or SIRP alpha) or p84, is a member of the SIRP family, and also belongs to the immunoglobulin superfamily. SIRP alpha is Ubiquitous and highly expressed in brain. SIRPA / CD172a is immunoglobulin-like cell surface receptor for CD47 and acts as docking protein and induces translocation of PTPN6, PTPN11 and other binding partners from the cytosol to the plasma membrane. SIRPA / SHPS-1 supports adhesion of cerebellar neurons, neurite outgrowth and glial cell attachment and may play a key role in intracellular signaling during synaptogenesis and in synaptic function By similarity. SIRPA / MyD1 involved in the negative regulation of receptor tyrosine kinase-coupled cellular responses induced by cell adhesion, growth factors or insulin and mediates negative regulation of phagocytosis, mast cell activation and dendritic cell activation. CD47</p> |

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|                             | binding prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells.                                                                                                                                                                                                                    |
| <b>Predicted N Terminal</b> | Glu 31                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>                 | Please contact us for detailed information.                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>       | The protein has a calculated MW of 40.7 kDa.                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>              | <p>For long term storage, the product should be stored at lyophilized state at -20°C or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20°C to -70°C for 12 months in lyophilized state;</p> <p>-70°C for 3 months under sterile conditions after reconstitution.</p> |
| <b>Reconstitution</b>       | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                                                                                                          |
| <b>Conjugation</b>          | Biotin                                                                                                                                                                                                                                                                                                                                 |
| <b>GENE INFORMATION</b>     |                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>             | SHPS1; SIRPA; CD172A; BIT; MFR; MYD1; P84; PTPNS1                                                                                                                                                                                                                                                                                      |