

# Active Recombinant Human SIRPA protein, hFc&His-tagged

**Cat. No.** SIRPA-2690H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human SIRP-alpha/CD172a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu31-Arg370) of human SIRP alpha/CD172a (Accession #NP_542970.1) fused with an Fc, 6×His tag at the C-terminus.                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | Glu31-Arg370                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>             | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | <p>1.Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human CD47 at 1 µg/mL (100 µL/well) can bind Recombinant Human SIRP alpha with a linear range of 1-6 ng/mL.</p> <p>2.Loaded Human SIRP-alpha/CD172a Protein, C-hFc&amp;His on ProA Biosensor, can bind Human CD47 Protein, C-His Tag with an affinity constant of 11.1 nM as determined in BLI assay (Gator).</p> <p>3.Measured by the ability of the immobilized protein to support the adhesion of the OVCAR-3 cells. The ED50 for this effect is 0.53-2.12 µg/mL.</p> |
| <b>Molecular Mass</b>   | 80-100 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | < 0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | EU/μg of the protein by LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 95% by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | Store the lyophilized protein at -20°C to -80 °C for long term.<br>After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.                                                                                                                                                                                                                                                                                                                                         |
| <b>Reconstitution</b>   | Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>        | SIRPA signal-regulatory protein alpha [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>  | SIRPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>         | SIRPA; signal-regulatory protein alpha; protein tyrosine phosphatase, non receptor type substrate 1 , PTPNS1; tyrosine-protein phosphatase non-receptor type substrate 1; BIT; CD172a; MFR; MYD 1; P84; SHPS 1; SHPS1; SIRP; SIRP ALPHA 1; SIRPalpha; SIRPalpha2; myd-1 antigen; inhibitory receptor SHPS-1; macrophage fusion receptor; CD172 antigen-like family member A; tyrosine phosphatase SHP substrate 1; brain-immunoglobulin-like molecule with tyrosine-based activation motifs; MYD-1; CD172A; PTPNS1; |
| <b>Gene ID</b>          | 140885                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>      | NM_001040022                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>   | NP_001035111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>              | 602461                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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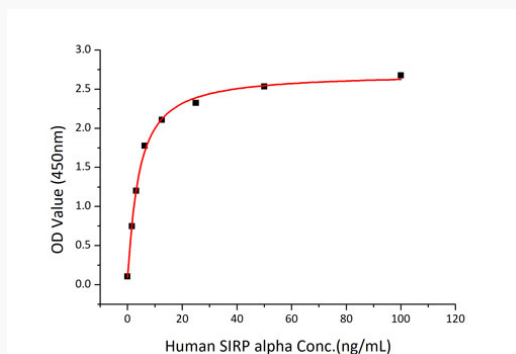
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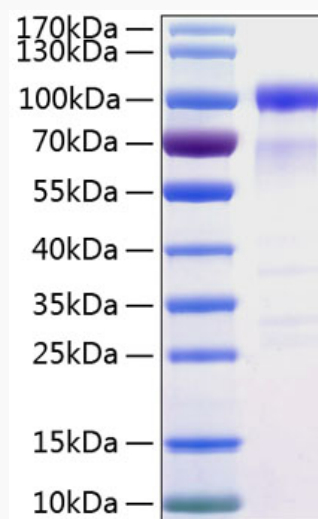
UniProt ID

P78324

Bio-activity



SDS-PAGE



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