

## Active Recombinant Human SPP1 protein, His-Avi-tagged, Biotinylated

**Cat. No.** SPP1-0597H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Biotinylated Recombinant Human SPP1 protein(Ile17-Asn300), fused with His and Avi tag, was expressed in HEK293.                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 17-300 a.a.                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.                                                                                                                                                                                                       |
| <b>Bio-activity</b>     | Immobilized Human ITGAV&ITGB3 Heterodimer Protein, His Tag&Tag Free at 5 µg/mL (100 µL/well) can bind Biotinylated Human Osteopontin, His,Avitag with a linear range of 0.078-5 µg/mL.                                                                                                                                           |
| <b>Molecular Mass</b>   | This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag). The protein has a calculated MW of 35.7 kDa. The protein migrates as 16 kDa, 23 kDa, 28 kDa and 45-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation and proteolytic processing of several intracellular enzymes. |
| <b>Proteinlength</b>    | Ile17-Asn300                                                                                                                                                                                                                                                                                                                     |
| <b>Endotoxin</b>        | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                                                                                                                                                       |

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|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >80% as determined by SDS-PAGE.                                                                                                                                               |
| <b>Storage</b>        | Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.                                                                |
| <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                                                                                                                                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">SPP1 secreted phosphoprotein 1 [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Official Symbol</b> | <a href="#">SPP1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | SPP1; secreted phosphoprotein 1; BNSP, bone sialoprotein I , OPN, osteopontin; osteopontin; BSPI; early T lymphocyte activation 1; ETA 1; uropontin; nephropontin; osteopontin-C; osteopontin-D; SPP1/CALPHA1 fusion; bone sialoprotein 1; urinary stone protein; early T-lymphocyte activation 1; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1); OPN; BNSP; ETA-1; MGC110940; |
| <b>Gene ID</b>         | <a href="#">6696</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | <a href="#">NM_000582</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | <a href="#">NP_000573</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MIM</b>             | <a href="#">166490</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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UniProt ID

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