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

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

SPECIFICATION

Product Overview	Biotinylated Recombinant Human SPP1 protein(Ile17-Asn300), fused with His and Avi tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	17-300 a.a.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	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.
Molecular Mass	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.
Proteinlength	Ile17-Asn300
Endotoxin	Less than 1.0 EU per μg by the LAL method.

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

GENE INFORMATION

Gene Name	SPP1 secreted phosphoprotein 1 [Homo sapiens]
Official Symbol	SPP1
Synonyms	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;
Gene ID	6696
mRNA Refseq	NM_000582
Protein Refseq	NP_000573
MIM	166490

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UniProt ID	P10451

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