

Recombinant Human Secreted Phosphoprotein 1, His-tagged

Cat. No. SPP1-5129H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Osteopontin protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography
Species	Human
Source	Human
Description	Osteopontin (OPN), also known as Secreted phosphoprotein 1 (SPP1), is a human gene product which is conserved in other species. This protein is a glycoprotein that was first identified in osteoblasts and plays an important role in bone remodeling, immune functions in fibroblasts, macrophages, and lymphocytes during inflammation and wound healing.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 7.5, containing 1mM DTT, 10% glycerol, and 2mM EDTA.
Purity	> 90% by SDS - PAGE
Sequence	17-314 amino acids: MGSSHHHHHH SSGLVPRGSH RSMIPVKQAD SGSSEEKQLY NKYPDAVATW LNPDP SQKQN LLAPQNAVSS EETNDFKQET LPSKSNESHD HMDDMDEDD DDHVDSQDSI DSNDSDDVDD TDDSHQSDS HHSDSEDELV TDFPTDLPAT EVFTPVVPTV DTYDGRGDSV VYGLRSKSKK FRRPDIQYPD ATDEDITSHM ESEELNGAYK AIP

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Molecular Mass	36.2 kDa (321aa), confirmed by MALDI-TOF. (Molecular weight on SDS-PAGE will appear higher)
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
GENE INFORMATION	
Gene Name	SPP1 secreted phosphoprotein 1 [Homo sapiens]
Official Symbol	SPP1
Synonyms	SPP1; secreted phosphoprotein 1; OPN; BNSP; BSPI; ETA-1; MGC110940; osteopontin; SPP-1; uropontin; nephropontin; osteopontin-C; osteopontin-D; OTTHUMP00000161173; OTTHUMP00000161174; OTTHUMP00000218555; OTTHUMP00000218556; SPP1/CALPHA1 fusion; bone sialoprotein 1; bone sialoprotein I; urinary stone protein; early T-lymphocyte activation 1; secreted phosphoprotein-1 (osteopontin, bone sialoprotein); osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1)
Gene ID	6696
mRNA Refseq	NM_000582
Protein Refseq	NP_000573
MIM	166490

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UniProt ID	P10451
Chromosome Location	4q22.1
Pathway	Direct p53 effectors; ECM-receptor interaction; Endochondral Ossification; FGF signaling pathway; Focal Adhesion; Integrin cell surface interactions; Integrins in angiogenesis; Osteoclast Signaling; Osteopontin-mediated events; Signaling by PDGF; TGF Beta Signaling Pathway; Toll-like receptor signaling pathway
Function	cytokine activity; extracellular matrix binding

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