

Recombinant Human Secreted Phosphoprotein 1, His-tagged

Cat. No. SPP1-372H **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, 36.2 kDa (321aa).
Species	Human
Source	E.coli
Description	Osteopontin (OPN), also known as Secreted phosphoprotein 1 (SPP1), is a human gene product which is conserved in other species. This protein is 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.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH RSMIPVKQAD SGSSEEKQLY NKYPDAVATW LNPDPQKQKQ LLAPQNAVSS EETNDFKQET LPSKSNESHDMDDMDDED DDHVDSQDSI DSNDSDDVDD TDDSHQSDDES HHSDESDELV TDFPTDLPAT EVFTPVVPTV DTYDGRGDSV VYGLRSKSKK FRRPDIQYPD ATDEDITSHM ESEEINGAYK AIPVAQDLNA PSDWDSRGKD SYETSQLDDQ SAETHSHKQS RLYKRKANDE SNEHSDVIDS QELSKVSREF HSHEFHSHED MLVVDPKSKE EDKHLKFRIS HELDSASSEV N
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 1 mM DTT, 10% glycerol, 2 mM EDTA

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Purity	> 90% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	SPP1 secreted phosphoprotein 1 [Homo sapiens]
Synonyms	SPP1; secreted phosphoprotein 1; OPN; BNSP; BSPI; ETA-1; MGC110940; SPP1/CALPHA1 fusion; bone sialoprotein I; early T-lymphocyte activation 1; secreted phosphoprotein-1 (osteopontin, bone sialoprotein); osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; Urinary stone protein; Nephropontin; Uropontin; PSEC0156; 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
UniProt ID	P10451
Chromosome Location	4q21-q25

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Pathway

Cell Communication; ECM-receptor interaction; Focal adhesion; Integrin cell surface interactions

Function

cytokine activity; protein binding

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