

Recombinant Human SPP1

Cat. No. SPP1-30522TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Osteopontin expressed in 293 cells, 60-65 kDa.
Species	Human
Description	The protein encoded by this gene is involved in the attachment of osteoclasts to the mineralized bone matrix. The encoded protein is secreted and binds hydroxyapatite with high affinity. The osteoclast vitronectin receptor is found in the cell membrane and may be involved in the binding to this protein. This protein is also a cytokine that upregulates expression of interferon-gamma and interleukin-12. Several transcript variants encoding different isoforms have been found for this gene.
Tissue specificity	Bone. Found in plasma.
Biological activity	Biological Activity : Determined by its ability to chemoattract human monocytes using a concentration range of 10.0-100.0 ng/ml.
Form	Lyophilised
Purity	>95% by SDS-PAGE
Storage	Store at -20°C. Stable for 12 months at -20°C
Sequences of amino acids	IPVKQADSGS SEEKQLYNKY PDAVATWLNP DPSQKQNLLA PQNAVSSEET NDFKQETLPS KSNESH DHMD DMDDEDDDDH VDSQDSIDSN DSDDVDDTDD SHQSDESHHS DESDELVTDF PTDLPATEVF TPVVPTVDY DGRGDSVVYG

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LRSKSKKFRR PDIQYPDATD EDITSHMESE ELNGAYKAIP VAQDLNAPSD
WDSRGKDSYE TSQLDDQSAE THSHKQSRLY KRKANDESNE HSDVIDSQEL
SKVSREFHSH EFHSHEDMLV VDPKSKEEDK HLKFRISHL DSASSEVN

Sequence Similarities Belongs to the osteopontin family.

Full Length Full L.

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;

Gene ID [6696](#)

mRNA Refseq [NM_000582](#)

Protein Refseq [NP_000573](#)

MIM [166490](#)

Uniprot ID [P10451](#)

Chromosome Location 4q22.1

Pathway Direct p53 effectors, organism-specific biosystem; ECM-receptor interaction,

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organism-specific biosystem; ECM-receptor interaction, conserved biosystem;
Endochondral Ossification, organism-specific biosystem; FGF signaling pathway,
organism-specific biosystem;

Function

cytokine activity; extracellular matrix binding;

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