

Active Recombinant Human SPP1 Protein

Cat. No. SPP1-705H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SPP1, transcript variant 2, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Form	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bio-activity	Determined by its ability to chemoattract human monocytes using a concentration range of 10.0-100.0 ng/ml.
Molecular Mass	60 kDa
AA Sequence	IPVKQADSGSSEEEKQLYNKYPDAVATWLNPDPSQKQNLLAPQNAVSSEETNDFKQE TLPSKSNESHDMDDMDEDDDDHVDSDSIDSNDSDDVDDTDDSHQSDSHHS DEDELVTDFPTDLPATEVFTPVVPTVDTYDGRGDSVVYGLRSKSKKFRRPDIQYPD ATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQLDDQSAETHS

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HKQSRLYKRRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVVDPKSKEED
KHLKFRISHELDSASSEVN

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration Resuspend the protein in the desired concentration in proper buffer

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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