

Recombinant Human SPP1, MBP-tagged

Cat. No. SPP1-28248TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Osteopontin Isoform B with MBP tag; 708 amino acids with tag, MWt 78.5 kDa.
Species	Human
Source	E.coli
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.
Conjugation	MBP
Tissue specificity	Bone. Found in plasma.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, PBS, pH 7.4
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

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

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organism-specific biosystem;

Function

cytokine activity; extracellular matrix binding;

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