

Recombinant Human Secreted Phosphoprotein 1, GST-tagged

Cat. No. SPP1-815H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant SPP1 protein was expressed in E.coli and purified by affinity chromatography, 55866,6 Da
Species	Human
Source	E.coli
Description	Osteopontin (OPN), also known as bone sialoprotein I (BSP-1 or BNSP), early T-lymphocyte activation (ETA-1), secreted phosphoprotein 1 (SPP1), 2ar and Rickettsia resistance (Ric), is a human gene product, which is also conserved in other species. Osteopontin is a SIBLING glycoprotein that was first identified in 1986 in osteoblasts. The prefix of the word "osteo" indicates that the protein is expressed in bone, although it is also expressed in other tissues. The suffix "-pontin" is derived from "pons," the Latin word for bridge, and signifies osteopontin's role as a linking protein. Osteopontin is an extracellular structural protein and therefore an organic component of bone.
Sequences of amino acids	59-300 aa
Formulation	Lyophilized from a solution of phosphate buffered saline (PBS), pH 7.4, purified by affinity chromatography.

GENE INFORMATION

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Gene Name	SPP1 secreted phosphoprotein 1 [Homo sapiens]
Synonyms	OPN; BNSP; BSPI; ETA-1; MGC110940; SPP1; osteopontin; SPP-1; uropontin; nephropontin; OTTHUMP00000218556; SPP1/CALPHA1 fusion; bone sialoprotein 1; bone sialoprotein I; urinary stone protein; early T-lymphocyte activation 1; secreted phosphoprotein-1; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1; SPP1/CALPHA1 fusion
Gene ID	6696
mRNA Refseq	NM_000582
Protein Refseq	NP_000573
MIM	166490
UniProt ID	P10451
Chromosome Location	4q22.1
Pathway	ECM-receptor interaction; Focal adhesion; Toll-like receptor signaling pathway; Integrin cell surface interactions; Signaling by PDGF
Function	cytokine activity

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