

Recombinant Human SPP1 Protein

Cat. No. SPP1-828H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SPP1 protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	314
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
Molecular Mass	33 kDa
AA Sequence	MRIAVICFCLLGITCAIPVKQADSGSSEEKQLYNKYPDAVATWLNPDPSQKQNLAP QNAVSSEETNDFKQETLPSKSNESHDMDDMDEDDDDHVDSDQSDSDSNDSDDVD DTDDSHQSDESHHSDESDELVTDFPTDLPATEVFTPVVPTVDTYDGRGDSVVYGLR SKSKKFRRPDIQYPDATDEEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDS YETSQLDDQSAETHSHKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFH HEDMLVVDPKSKEEDKHLKFRISHELDSASSEVN

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Purity	> 98%
Applications	Migration Assay; WB; ELISA;
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	SPP1 secreted phosphoprotein 1 [Homo sapiens (human)]
Official Symbol	SPP1
Synonyms	SPP1; secreted phosphoprotein 1; OPN; BNSP; BSPI; ETA-1; osteopontin; SPP1/CALPHA1 fusion; early T-lymphocyte activation 1; Inc-PKD2-2-3; nephropontin; osteopontin/immunoglobulin alpha 1 heavy chain constant region fusion protein; secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation 1); urinary stone protein; uropontin

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Gene ID	6696
mRNA Refseq	NM_000582
Protein Refseq	NP_000573
MIM	166490
UniProt ID	P10451

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