

Product datasheet for **TP723344**

Osteopontin (SPP1) (NM_000582) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human secreted phosphoprotein 1 (SPP1), transcript variant 2.
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	IPVKQADSGS SEEKQLYNKY PDAVATWLNP DPSQKQNLLA PQNAVSSEET NDFKQETLPS KSNESHDMMD DMDDEDDDDH VDSQDSIDSN DSDDVDDTDD SHQSDESHHS DESDELVTDF PTDLPATEVF TPVPTVDY DGRGDSVYVG LRSKSKKFRF PDIQYDATD EDITSHMESE ELNGAYKAIP VAQDLNAPSD WDSRGKDSYE TSQLDDQSAE THSHKQSRLY KRKANDESNE HSDVIDSQEL SKVSREFHSH EFHSHEDMLV VDPKSKEEDK HLKFRISHL DSASSEVN
Tag:	Tag Free
Predicted MW:	60 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μ M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Determined by its ability to chemoattract human monocytes using a concentration range of 10.0-100.0 ng/ml.
Endotoxin:	Endotoxin level is < 0.1 ng/ μ g of protein (< 1 EU/ μ g)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_000573
Locus ID:	6696
UniProt ID:	P10451 , A0A024RDE6
RefSeq Size:	1616
Cytogenetics:	4q22.1
RefSeq ORF:	900



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Synonyms: BNSP; BSPI; ETA-1; OPN

Summary: 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. [provided by RefSeq, Oct 2011]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: ECM-receptor interaction, Focal adhesion, Toll-like receptor signaling pathway