

Product datasheet for **TP310592**

Osteopontin (SPP1) (NM_001040060) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of human secreted phosphoprotein 1 (SPP1), transcript variant 3, with C-terminal MYC/DDK tag, secretory expressed in HEK293 cells, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210592 protein sequence Red =Cloning site Green =Tags(s)

MRIAVICFLLGITCAIPVKQADSGSSEEKQNAVSSSEETNDFKQETLPKSNESHDMDDMDEDDDDHV
DSQDSIDSNDSDVDVDDTDDSHQSDSHHSDESDELVTDFPTDLPATEVFTPVVPTVDTYDGRGDSVWYGL
RSKSKKFRPDIQYPDATDEDITSHMESEELNGAYKAIPVAQDLNAPSDWDSRGKDSYETSQLDDQSAET
HSHKQSRLYKRKANDESNEHSDVIDSQELSKVSREFHSHEFHSHEDMLVDPKSKEEDKHLKFRISHELD
SASSEVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	30.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Cell treatment (PMID: 29959420)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001035149



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Locus ID: 6696
UniProt ID: [P10451](#)
RefSeq Size: 1560
Cytogenetics: 4q22.1
RefSeq ORF: 861
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

Product images:



Coomassie blue staining of purified SPP1 protein (Cat# TP310592). The protein was produced from HEK293T cells transfected with SPP1 cDNA clone (Cat# [RC210592]) using MegaTran 2.0 (Cat# [TT210002]).