

## Datasheet for ABIN935702 Osteopontin Protein



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### Overview

Quantity:	50 µg
Target:	Osteopontin (SPP1)
Origin:	Human
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Sequence:	IPVKQADSGS SEEKQLYNKY PDAVATWLNP DPSQKQNLLA PQNAVSSEET NDFKQETLPS KSNESHDMMD DMDDEDDDDH VDSQDSIDSN DSDDVDDTDD SHQSESHHS DESDELVTDF PTDLPATEVF TPVPTVDY DGRGDSVWYG LRSKSKKFRR PDIQYDATD EDITSHMESE ELNGAYKAIP VAQDLNAPSD WDSRGKDSYE TSQDDQSAE TSHKQSRLY KRKANDESNE HSDVIDSQEL SKVSREFHSH EFHSHEDMLV VDPKSKEEDK HLKFRISHEL DSASSEVN
Characteristics:	Purified recombinant Human Osteopontin protein Expression System: 293 cells Bioactivity: Determined by its ability to chemoattract human monocytes using a concentration range of 10.0-100.0 ng/mL.
Purity:	> 97 % pure
Endotoxin Level:	< 0.1 ng per µg (1 EU/µg).

### Target Details

Target:	Osteopontin (SPP1)
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## Target Details

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Alternative Name: Osteopontin ([SPP1 Products](#))

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Background: Osteopontin is a secreted glycoprotein that functions as a ligand to alphavbeta3 integrin and possibly other receptors. It binds tightly to hydroxyapatite and can act as a structural component of the extracellular mineralized matrix. Osteopontin is initially secreted as a 298 amino acid protein, which is subject to multiple post-translational modifications including glycosylation, phosphorylation, and specific proteolytic cleavages into various smaller molecular weight fragments. Osteopontin is expressed in a wide range of cells and tissues including osteoblasts, various tumor cell lines, extraosseous cells in the inner ear, brain, kidney, deciduum, placenta and odontoblasts. In addition to its involvement in mineralized matrix formation, Osteopontin can also function as a cytokine that stimulates the release of IFN $\gamma$  and IL12, while inhibiting the production of IL10.

Alternative Names: Nephropontin protein, Secreted phosphoprotein 1 protein, Uropontin protein, SPP-1 protein, Bone sialoprotein 1 protein

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Molecular Weight: 60-65 kDa

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Pathways: [Regulation of Cell Size](#)

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## Application Details

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Application Notes: Each Investigator should determine their own optimal working dilution for specific applications.

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Reconstitute in water to a concentration of 0.1-1.0 mg/mL.

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Buffer: Supplied as a lyophilized powder.

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Handling Advice: Avoid repeated freeze/thaw cycles.

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Storage: 4 °C/-20 °C

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Storage Comment: Store at 4 °C until reconstitution. Following reconstitution aliquot and freeze at -20 °C for long term storage.

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