

## 32-20572: Recombinant Human Osteopontin(Discontinued)

**Reactivity :** Human, Mouse

**Alternative Name :** Bone sialoprotein 1, Secreted phosphoprotein 1, SPP-1, Nephropontin, Uropontin

### Description

#### Source:HEK293 cells

Osteopontin is a secreted glycoprotein that functions as a ligand to Alpha vBeta 3 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, extrasosseous 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 IFNGamma and IL-12, while inhibiting the production of IL-10. Recombinant human Osteopontin is a 298 amino acid protein, which, due to glycosylation, migrates at an apparent molecular weight of 60.0-65.0 kDa by SDS-PAGE analysis under reducing conditions.

### Product Info

**Amount :** 10 µg / 50 µg

**Purification :** Purity:>= 97% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** IPVKQADSGS SEEKQLYNKY PDAVATWLNPDPSQKQNLLA PQNAVSSEET NDFKQETLPS  
KSNESHDMMD DMDDEDDDDH VDSQDSIDSN DSDDVDDTDD SHQSDESHHS DESDELVTDF  
PTDLPATEVF TPVVPTVDY DGRGDSVYVG LRSKSKKFRR PDIQYPDATD EDITSHMESE  
ELNGAYKAIP VAQDLNAPSD WDSRGKDSYE TSQLDDQSAE THSHKQSRLY KRKANDESNE  
HSDVIDSQEL SKVSREFHSH EFHSHEDMLV VDPKSKEEDK HLKFRISHEL DSASSEVN

### Application Note

Determined by its ability to chemoattract human monocytes using a concentration range of 10.0-100.0 ng/ml.