

## 32-20573: Recombinant Human SPARC/Osteonectin(Discontinued)

**Reactivity :** Mouse, Rat

**Alternative Name :** Secreted protein acidic and rich in cysteine, BM-40, ON

### Description

#### Source:CHO cells

SPARC/Osteonectin is a secreted, evolutionarily-conserved, collagen-binding glycoprotein that is involved in a variety of cellular activities. It is highly expressed in tissues undergoing morphogenesis, remodeling and wound repair. SPARC/Osteonectin and its related peptides bind to numerous proteins of the extracellular matrix (ECM), affect ECM protein expression, influence cellular adhesion and migration, and modulate growth factor-induced cell proliferation and angiogenesis. SPARC/Osteonectin consists of three domains: an N-terminal acidic region that binds calcium ions with low affinity, a module containing two EF-hand motifs that bind calcium with high affinity, and a cysteine-rich follistatin-like domain. Recombinant Human SPARC/Osteonectin is a glycoprotein containing 286 amino acids that migrates at an apparent MW of 43.7 kDa by SDS-PAGE analysis due to the effect of glycosylation. The calculated molecular weight of Recombinant Human SPARC/Osteonectin is 32.7 kDa.

### Product Info

**Amount :** 10 µg / 50 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

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

**Amino Acid :** APQQEALPDE TEVVEETVAE VTEVSVGANP VQVEVGEFDD GAEETEEVV AENPCQNHHK  
KHGKVCCELDE NNTPMCVCQD PTSCPAIGE FEKVCSDNK TFDSSCHFFA TKCTLEGTKK GHKLHLDYIG  
PCKYIPPCLD SELTEFPLRM RDWLKNVLVT LYERDEDNLL LTKQKLRVK KIHENEKRL AGDHPVELLA  
RDFEKYNMY IFPVHWQFGQ LDQHPIDGYL SHTELAPLRA PLIPMEHCTT RFFETCDLDN DKYIALDEWA  
GCFGKQKDI DKDLVI

### Application Note

Determined by its ability to increase alkaline phosphatase activity in differentiating MC3T3 cells using a concentration of 0.5-0.7 µg/ml.