

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 AENPCQNHHC
KHGKVCCELDE NNTPMCVCQD PTSCPAIGE FEKVCSDNDK TFDSSCHFFA TKCTLEGTKK GHKLHLDYIG
PCKYIPPCLD SELTEFPLRM RDWLKNVLVT LYERDEDNNL LTKQKLRVK KIHENEKRL AGDHPVELLA
RDFEKNYNMY 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.