

Active Recombinant Human SPARC Protein, Tag Free

Cat. No. SPARC-31437TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SPARC ; 286 amino acids, Predicted MWt 33 kDa.
Species	Human
Source	CHO
ProteinLength	18-303 a.a.
Description	Secreted protein acidic and rich in cysteine/osteonectin/BM40, or SPARC, is a matrix-associated protein that elicits changes in cell shape, inhibits cell-cycle progression, and influences the synthesis of extracellular matrix (ECM) (Bradshaw et al.
Molecular Weight	33.000kDa
Biological activity	Determined by its ability to increase alkaline phosphatase activity in differentiating MC3T3 cells using a concentration of 0.5-0.7 µg/ml.
Form	Lyophilised:Reconstitute in waterto a concentration of 0.1-1.0 mg/ml
Purity	by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 10mM Sodium phosphate, pH 7.6
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids

APQQEALPDETEVVEETVAEVTEVSVGANPVQVEVGEFDDGAEETEEVVVAENPC
 QNHHCKHKGKVCELDENNTPMCVCQDPTSCPAPIGEFEKVCSDNKTFDSSCHFFA
 TKCTLEGTKKGGHKLHLDYIGPCKYIPPCLDSELTEFPLRMRDWLKNVLVTLYERDED
 NNLLTEKQKLRVKKIHENEKRLEAGDHPVELLARDFEKNYNMYIFPVHWQFGQLDQ
 HPIDGYLSHTELAPLRAPLIPMEHCTTRFFETCDLDNDKYIALDEWAGCFGIKQKDID
 KDLVI

Sequence Similarities

Belongs to the SPARC family. Contains 1 EF-hand domain. Contains 1 follistatin-like domain. Contains 1 Kazal-like domain.

GENE INFORMATION

Gene Name SPARC secreted protein, acidic, cysteine-rich (osteonectin) [Homo sapiens]

Official Symbol SPARC

Synonyms SPARC; secreted protein, acidic, cysteine-rich (osteonectin); ON; cysteine rich protein; osteonectin;

Gene ID 6678

mRNA Refseq NM_003118

Protein Refseq NP_003109

MIM 182120

Uniprot ID P09486

Chromosome Location 5q31-q33

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Pathway

Hemostasis, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; Platelet degranulation, organism-specific biosystem; Response to elevated platelet cytosolic Ca²⁺, organism-specific biosystem; Senescence and Autophagy, organism-specific biosystem;

Function

calcium ion binding; collagen binding; extracellular matrix binding; protein binding;

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