

Active Recombinant Human SPARC Protein, His-tagged

Cat. No. SPARC-525H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SPARC (Accession # NP_003109) Ala18-Ile303, fused with a C-terminal 10-His tag, was produced in Mouse myeloma cell line, NS0-derived.
Species	Human
Source	Mammalian Cells
ProteinLength	Ala18-Ile303
Predicted N Terminal	Ala18
Form	Lyophilized from a 0.2 µ filtered solution in PBS.
Bio-activity	Measured by its ability to inhibit the cell growth of Mv1Lu mink lung epithelial cells. Schiemann, B.J. et al. (2003) Mol. Biol. Cell. 14:3977. The ED50 for this effect is typically 0.75 - 3.0 µg/mL. Measured by its binding ability in a functional ELISA. Immobilized Collagen I at 10 µg/mL (100 µL/well) can bind rhSPARC with an apparent KD < 40 nm. Optimal dilutions should be determined by each laboratory for each application.
Molecular Mass	Recombinant Human SPARC, His-tagged has a calculated MW of 34 kDa. In SDS-PAGE migrates as 40-50 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

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Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
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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; BM-40; cysteine-rich protein; basement-membrane protein 40; secreted protein acidic and rich in cysteine;
Gene ID	6678
mRNA Refseq	NM_003118
Protein Refseq	NP_003109
MIM	182120
UniProt ID	P09486
Chromosome Location	5q31-q33

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