Active Recombinant Human SPARC, His-tagged

Cat. No. SPARC-126H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SPARC (Ala18Ile303) fused with a Cterminal and 10His tag, was expressed in Mouse NSO Cells
Species	Human
Source	Mammalian Cells
Description	This gene encodes a cysteine-rich acidic matrix-associated protein. The encoded protein is required for the collagen in bone to become calcified but is also involved in extracellular matrix synthesis and promotion of changes to cell shape. The gene product has been associated with tumor suppression but has also been correlated with metastasis based on changes to cell shape which can promote tumor cell invasion.
Molecular Mass	Predicted molecular mass is 34 kDa, The apparent molecular mass of the protein is approximately 40-50 kDa in SDS-PAGE under reducing conditions.
Predicted N terminal	Ala18
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS.
Purity	>95% as determined by SDSPAGE
Activity	Measured by its binding ability in a functional ELISA. Immobilized Collagen I at 10 g/mL (100 μ/well) can bind rhSPARC with an apparent KD <40 nm. Optimal dilutions

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	should be determined by each laboratory for each application.
EndotoxinLevel	<1.0 EU per 1 μg of the protein by the LAL method.
Storage	12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freezethaw cycles.
OfficialSymbol	SPARC

GENE INFORMATION

Gene Name	SPARC secreted protein, acidic, cysteine-rich (osteonectin) [Homo sapiens]
Synonyms	SPARC; secreted protein, acidic, cysteine-rich (osteonectin); ON; cysteine-rich protein; osteonectin; Basement-membrane protein 40; BM-40; Secreted protein acidic and rich in cysteine; secreted protein, acidic, cysteine-rich
Gene ID	6678
mRNA Refseq	NM_003118
Protein Refseq	NP_003109
MIM	182120
UniProt ID	P09486
Chromosome Location	5q31.3-q32
Pathway	Hemostasis; Platelet activation; Platelet degranulation; Senescence and Autophagy

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

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