

Product Name: Recombinant Human SPARC (C-6His)
Catalog #: PHH1250

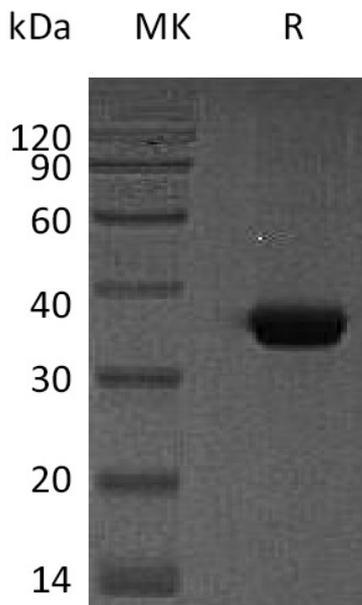


Summary

Name	SPARC/Osteonectin/ON/BM-40
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Secreted Protein Acidic and Rich in Cysteine is produced by our Mammalian expression system and the target gene encoding Ala18-Ile303 is expressed with a 6His tag at the C-terminus.
Accession #	P09486
Host	Human Cells
Species	Human
Predicted Molecular Mass	33.73 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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Alternative Names

SPARC; Basement-Membrane Protein 40; BM-40; Osteonectin; ON; Secreted Protein Acidic and Rich in Cysteine; SPARC; ON

Background

Secreted Protein Acidic and Rich in Cysteine (SPARC) is a secreted, evolutionarily conserved collagen-binding glycoprotein and belongs to the SPARC family. SPARC has 286 amino acids and contains an EF-hand in C-termina domain, a follistatin-like domain with Kazal-like sequences. There are two calcium binding sites, one binds 5 - 8 Ca²⁺ with a low affinity and other on an EF-hand loop that binds a Ca²⁺ ion with a high affinity. It is highly expressed in tissues undergoing morphogenesis, remodeling and wound repair. SPARC regulate cell growth through interactions with the extracellular matrix (ECM) and cytokines. SPARC bind to numerous proteins of the ECM, affect ECM protein expression, influence cellular adhesion and migration, and modulate growth factor-induced cell proliferation and angiogenesis. SPARC also binds several types of collagen, albumin, thrombospondin, PDGF and cell membranes.

Note

For Research Use Only , Not for Diagnostic Use.