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

## Summary

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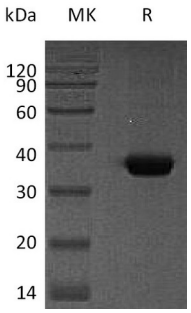
|---|---|
| **Name** | SPARC/Osteonectin/ON/BM-40 |
| **Purity** | Greater than 95% as determined by reducing SDS-PAGE |
| **Endotoxin level** | <1 EU/μg as determined by LAL test. |
| **Construction** | Recombinant Human Secreted Protein Acidic and Rich in Cysteine is produced by our Mammalian expression 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** | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. |
| **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.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




## Background

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

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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.