

# **Recombinant Human Osteonectin/SPARC Protein**

Catalog No.: RP00217 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Human 6678 P09486

**Tags** C-His

**Synonyms** SPARC;BM-40;OI17

### **Product Information**

Source Purification

HEK293 cells ≥ 90 % as

determined by SDS-PAGE;≥ 90 % as determined by

HPLC.

Calculated MW Observed MW

33.54 kDa 37-48 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### **Contact**

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### **Background**

SPARC (secreted protein acidic and rich in cysteine), also known as osteonectin and BM40, is a secreted matricellular glycoprotein . SPARC is produced by fibroblasts, capillary endothelial cells, platelets and macrophages, especially in areas of tissue morphogenesis and remodeling. SPARC is involved in tissue renewal, tissue remodeling, and embryonic development and work by exerting counter-adhesive and antiproliferative effects that lead to changes in cell shape, disruption of cell adhesion, and inhibition of the cell cycle. SPARC is abundantly expressed in bone where it promotes osteoblast differentiation and inhibits adipogenesis. SPARC is highly expressed in many tumor types undergoing an endothelial to mesenchymal transistion; its expression, however, mainly decreases the likelihood of metastasis and confers sensitivity to chemotherapy and radiation. SPARC has also been linked with obesity and diabetes.

### **Basic Information**

#### Description

Recombinant Human Osteonectin/SPARC Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala18-Ile303) of human Osteonectin/SPARC (Accession #NP\_003109.1) fused with a 6×His tag at the C-terminus.

### **Bio-Activity**

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

# Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

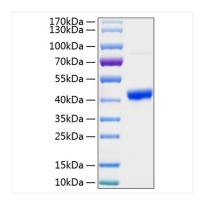
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

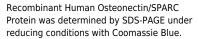
Avoid repeated freeze/thaw cycles.

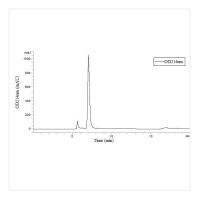
#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

# **Validation Data**







The purity of Recombinant Human Osteonectin/SPARC Protein is greater than 90% as determined by SEC-HPLC.