

# 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

## 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 transition; 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.

## 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

&lt; 0.1 EU/μg 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## 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 6xHis tag at the C-terminus.

### Bio-Activity

### 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.

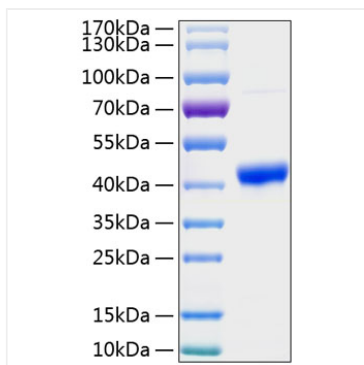
Avoid repeated freeze/thaw cycles.

## Contact

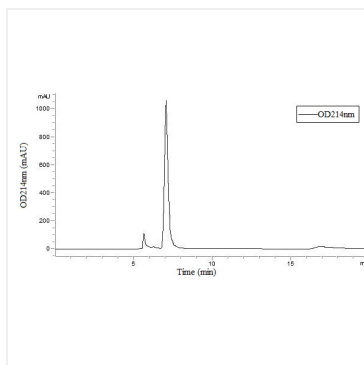
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## Validation Data



Recombinant Human Osteonectin/SPARC Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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