

Recombinant Human Osteonectin/SPARC Protein

Catalog No.: RP00217

Sequence Information

Species **Gene ID**
Human 6678

Swiss Prot **Tags**
P09486 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/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.

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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

Operational Notes

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

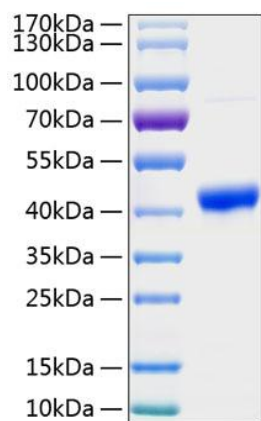
Contact

☎ | 400-999-6126

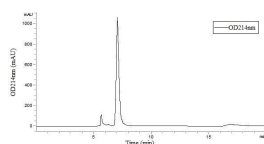
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Validation Data



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.