

Secreted Protein acidic & Rich in Cysteine Human Recombinant

Item Number	rAP-4408
Synonyms	Osteonectin, ON, Basement-membrane protein 40, BM-40, SPARC, Secreted Protein acidic and Rich in Cysteine.
Description	Osteonectin Human Recombinant fused with 6X His tag produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 295 amino acids and having a molecular mass of 34 kDa. The BM40 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P09486
Amino Acid Sequence	MSYYHHHHHPQQEALPDETEVVEETVAEV- TEVSVGANPVQVEVGEOFDDGAETEEVVAENPCQNHCKHGKVCELDENNTPMCVCQDPTSCPAPIGE FEKVCSDNDKTFDSSCHFFATKCTLEGTKGHKLHLDYIGPCKYIPPCLDSELTEFPLRMRDWLKNVLVTLY ERDEDNNLLTKQKLRVKKIHENEKRLEAGDHPVELLARDFEKNYNMYIFPVHWQFGQLDQHPIDGYSHT LAPLRAPLIPMEHCTTRFFETCSDLNDKYIALDEWAGCFGIKQKDIDKDLVI.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Osteonectin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BM-40 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The SPARC (1 mg/ml) was lyophilized after extensive dialyses against 20mM PBS pH-7.4. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized SPARC in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the end users! This product is sold for **Research Use Only**