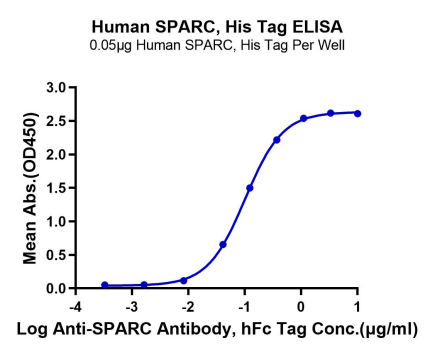
Bioactive HuPro®

SPARC (Human) Recombinant Protein

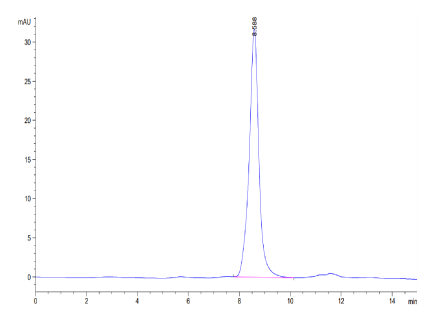
Catalog # P9916 Size 100 ug

Applications



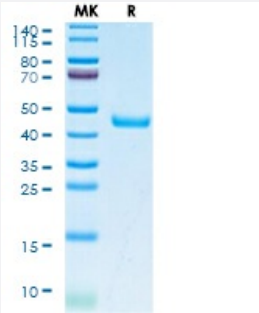
Enzyme-linked Immunoabsorbent Assay

Immobilized Human SPARC, His Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-SPARC Antibody, hFc Tag with the EC50 of 0.10 ug/mL determined by ELISA.



SEC-HPLC

The purity of Human SPARC is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human SPARC on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

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Product Description	Human SPARC (P09486, Ala18-Ile303) partial recombinant protein with His tag at C-Terminus expressed in HEK293 cells.
Sequence	Ala18-Ile303
Host	Human
Theoretical MW (kDa)	33.8
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 0.10 ug/mL, messured by ELISA at 0.5 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human SPARC is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human SPARC on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human SPARC, His Tag at 0.5 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-SPARC Antibody, hFc Tag with the EC50 of 0.10 ug/mL determined by ELISA.
- SDS-PAGE

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Gene Info — SPARC

Entrez GeneID	6678
Protein Accession#	P09486
Gene Name	SPARC
Gene Alias	ON
Gene Description	secreted protein, acidic, cysteine-rich (osteonectin)
Omim ID	182120
Gene Ontology	Hyperlink
Gene Summary	Secreted protein acidic and rich in cysteine/osteonectin/BM40, or SPARC, is a matrix-associated protein that elicits changes in cell shape, inhibits cell-cycle progression, and influences the synthesis of extracellular matrix (ECM) (Bradshaw et al., 2003 [PubMed 12721366]).[supplied by OMIM
Other Designations	cysteine-rich protein|osteonectin|secreted protein, acidic, cysteine-rich

Disease

- Alzheimer disease
- Carcinoma
- Cardiovascular Diseases
- Chorioamnionitis
- Diabetes Complications
- Diabetes Mellitus
- Edema
- Fetal Membranes
- Genetic Predisposition to Disease
- Gingival Overgrowth
- Liver Neoplasms
- Metabolic Syndrome X

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- Neoplasms
- Obstetric Labor
- Osteoporosis
- Ovarian Neoplasms
- Pre-Eclampsia
- Premature Birth
- Pulmonary Fibrosis
- Raynaud Disease
- Scleroderma

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