Recombinant SPRC protein (His tag)

Catalog Number	546723
Synonyms	Basement-membrane protein 40; BM-40; Osteonectin; ON; Secreted protein acidic and rich in cysteine
Species	Human
Expression System	E. coli
Accession	P09486
Molecular Weight	Predictes a molecular mass of 28.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	69-303
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 69-303 aa (P09486) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human SPARC Fragment (aa 69-303) – a high-quality protein fragment encompassing the Follistatin-like, Kazal-like, and EF-hand domains. This product is an essential tool for investigating SPARC's role in regulating cell growth, extracellular matrix interactions, and calcium-binding functions in a domain-specific context. SPARC (Secreted Protein Acidic and Rich in Cysteine), also known as Osteonectin or BM-40, is a multifunctional human protein that modulates cell growth by interacting with the extracellular matrix and cytokines. It binds calcium and copper, collagens, albumin, thrombospondin, PDGF, and cell membranes, featuring both low-affinity calcium-binding acidic regions and a high-affinity EF-hand domain. SPARC is secreted and localized to the extracellular space, extracellular matrix, and basement membrane, where it plays critical roles in tissue organization and signaling pathways.