Recombinant Human SPARC/BM40

Source

- **Species** Human
- **Gene Symbols** SPARC
- **Accession Number** P09486
- **Expressed Region** Ala18-Ile303
- **Synonyms** SPARC, Secreted Protein Acidic And Cysteine Rich, Secreted Protein Acidic And Rich In Cysteine, Basement-Membrane Protein 40, Osteonectin, BM-40, ON, Secreted Protein, Acidic, Cysteine-Rich, Cysteine-Rich Protein, OI17, SPARC, Secreted protein acidic and rich in cysteine.

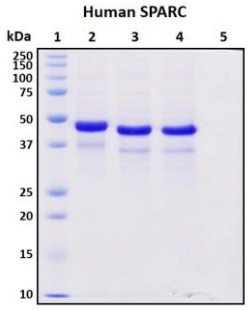
Preparation

- **Expression System** Human embryonic kidney 293 (HEK293) cells
- **Tag** *N*-terminal histidine tag
- **Purification** His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
- **Purity** >70%
- **Endotoxin Level** <0.5 EU per µg of the protein as determined by the LAL method
- **Purity determined** By SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
- **Molecular Weight** Recombinant Human SPARC/BM40 has a calculated molecular mass of 35 kDa. Due to the abundant glycosylation, it migrates as approximately 40-45 kDa protein bands in SDS-PAGE under DTT, beta-mercaptoethanol reducing conditions. Some large proteins were copurified due to the potential protein-protein interaction.

Protein Specifications

- **Format** Lyophilized powder
- **Formulation** Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4)
- **Concentration** Determined by Pierce BCA protein assay
- **SDS-PAGE Image**

Figure 1. Deglycosylation of purified recombinant proteins. Purified proteins were untreated (Lane 2) or treated with protein deglycosylation enzymes under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to produce one major band at the expected size, thus indicating that the untreated recombinant protein (Lane 2) was glycosylated.
Lane 1: Protein standard ladder (kDa).
Lane 2: Untreated protein under reducing conditions.
Lane 3: Treated protein with deglycosylation enzymes under native conditions.
Lane 4: Treated protein with deglycosylation enzymes under reducing conditions.
Lane 5: Deglycosylation mixture only without target proteins.



Shipping

The product is shipped with ice packs

Storage/Stability

Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.