

## Recombinant Human SPARC Protein, His-Tagged

Cat. No. SPARC-01H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human SPARC Protein, His-Tagged was expressed in Baculovirus cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Source           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ProteinLength    | 295aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description      | This gene encodes a cysteine-rich acidic matrix-associated protein. The encoded protein is required for the collagen in bone to become calcified but is also involved in extracellular matrix synthesis and promotion of changes to cell shape. The gene product has been associated with tumor suppression but has also been correlated with metastasis based on changes to cell shape which can promote tumor cell invasion. Three transcript variants encoding different isoforms have been found for this gene. |
| Form             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Molecular Mass   | 33.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Endotoxin        | < 1 EU per 1ug of protein (determined by LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purity           | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | SDS-PAGE                                                                                                                                      |
| <b>Notes</b>            | Note: For research use only. This product is not intended or approved for human, diagnostics or veterinary use.                               |
| <b>Storage</b>          | Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles. |
| <b>Concentration</b>    | 0.5mg/ml (determined by absorbance at 280nm)                                                                                                  |
| <b>Storage Buffer</b>   | Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol                                                                         |
| <b>GENE INFORMATION</b> |                                                                                                                                               |
| <b>Gene Name</b>        | SPARC secreted protein acidic and cysteine rich [ Homo sapiens (human) ]                                                                      |
| <b>Official Symbol</b>  | SPARC                                                                                                                                         |
| <b>Synonyms</b>         | SPARC, Basement-membrane protein 40, BM-40, Osteonectin, ON, Secreted protein acidic and rich in cysteine, OI17                               |
| <b>Gene ID</b>          | 6678                                                                                                                                          |
| <b>mRNA Refseq</b>      | NM_003118.4                                                                                                                                   |
| <b>Protein Refseq</b>   | NP_003109.1                                                                                                                                   |
| <b>MIM</b>              | 182120                                                                                                                                        |
| <b>UniProt ID</b>       | P09486                                                                                                                                        |

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