# Recombinant Human Secreted Protein Acidic and Rich in Cysteine, His

Catalog No: #AP60449

Package Size: #AP60449-1 10ug #AP60449-2 100ug #AP60449-3 500ug

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## Description

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| Product Name | Recombinant Human Secreted Protein Acidic and Rich in Cysteine, His |
| Host Species | E.coli |
| Purification | > 95 % by SDS-PAGE and HPLC analyses. |
| Other Names | Basement-membrane Protein 40, BM-40, Osteonectin, ON |
| Uniprot | P09486 |
| GeneID | 6678 |
| Calculated MW | Approximately 36.1 kDa, a single non-glycosylated polypeptide chain containing 314 amino acids, with expression vector sequence (containing 6 oΩ½oΩ½ His tag). |
| Target Sequence | MSYYHHHHHH DYDIPTTENL YFQGAMGSAP QQEALPDETE VVEETVAEVT EVSVGANPVQ VEVGEFDDGA EETEEEVVAE NPCQNHHCKH GKVCELDENN TPMCVCQDPT SCPAPIGEFE KVCSNDNKTF DSSCHFFATK CTLEGTKKGH KLHLDYIGPC KYIPPCLDSE LTEFPLRMRD WLKNVLVTLY ERDEDNNLLT EKQKLRVKKI HENEKRLEAG DHPVELLARD FEKNYNMYIF PVHWQFGQLD QHPIDGYLSH TELAPLRAPL IPMEHCTTRF FETCDLDNDK YIALDEWAGC FGIKQKDIDK DLVI |
| Formulation | LyophilizedB fromB aB 0.2B umB filteredB concentratedB solutionB inB PBS. |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 oΩ½oΩ½C as supplied.- 1 month, 2 to 8 oΩ½oΩ½C under sterile conditions after reconstitution.- 3 months, -20 to -70 oΩ½oΩ½C under sterile conditions after reconstitution. |

## Background

Secreted protein acidic and rich in cysteine (SPARC), also named as osteonectin or BM-40, is an acronym for “secreted protein, acidic and rich in cysteine”. It is encoded by the SPARC gene in humans. The protein is a glycoprotein of 40 kDa, (303 amino acid residues) and consists of 17 a.a. signal sequence, an N-terminal acidic region that binds calcium, a follistatin domain containing Kazal-like sequences, and a C-terminal extracellular calcium (EC) binding domain with two EF-hand motifs. SPARC is the founding member of a family of secreted matricellular proteins with similar domain structure. It is produced by fibroblasts, capillary endothelial cells, platelets and macrophages, especially in areas of tissue morphogenesis and remodeling. SPARC 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.

Note: This product is for in vitro research use only