Proteins



Product Data Sheet

SPARC Protein, Human (HEK293, His)

Cat. No.: HY-P71094

Synonyms: SPARC; Basement-Membrane Protein 40; BM-40; Osteonectin; ON; Secreted Protein Acidic and

Rich in Cysteine; SPARC; ON

Species: Human HEK293 Source:

Accession: P09486 (A18-I303)

6678 Gene ID:

Molecular Weight: Approximately 38.0-46 kDa due to the glycosylation

PROPERTIES

AA Sequence	APQQEALPDE TEVVEETVAE VTEVSVGANP VQVEVGEFDD GAEETEEEVV AENPCQNHHC KHGKVCELDE NNTPMCVCQD PTSCPAPIGE FEKVCSNDNK TFDSSCHFFA TKCTLEGTKK GHKLHLDYIG PCKYIPPCLD SELTEFPLRM RDWLKNVLVT LYERDEDNNL LTEKQKLRVK KIHENEKRLE AGDHPVELLA RDFEKNYNMY IFPVHWQFGQ LDQHPIDGYL SHTELAPLRA PLIPMEHCTT RFFETCDLDN DKYIALDEWA GCFGIKQKDI DKDLVI
Biological Activity	Measured by its ability to inhibit the cell growth of Mv-1-Lu mink lung epithelial cells. The ED $_{50}$ for this effect is typically 2.503 μ g/mL, corresponding to a specific activity is 400 U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2 or PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background APOE is a crucial protein involved in the transport of lipids between organs via plasma and interstitial fluids. It plays a vital

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role in the production, conversion, and clearance of plasma lipoproteins. APOE interacts with various lipoprotein particles, including chylomicrons, chylomicron remnants, VLDL, and IDL, with a particular preference for HDL. It also binds to numerous cellular receptors, such as LDLR and VLDLR, facilitating the uptake of APOE-containing lipoproteins by cells. Additionally, APOE possesses heparin-binding activity and binds to heparan-sulfate proteoglycans on cell surfaces, aiding in the capture and receptor-mediated uptake of APOE-containing lipoproteins. Furthermore, APOE forms a homotetramer and may interact with ABCA1 in HDL biogenesis. It can also interact with APP/A4 amyloid-beta peptide, MAPT, MAP2, secreted SORL1, and PMEL for various physiological processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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