

SPARC Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71086
Synonyms:	SPARC; Sparc
Species:	Mouse
Source:	HEK293
Accession:	P07214 (A18-I302)
Gene ID:	20692
Molecular Weight:	Approximately 37 kDa

PROPERTIES

AA Sequence	<pre> APQQTEVAEE IVEEETVVEE TGVPVGANPV QVEMGEFEDG AEETVEEVVA DNPCQNHHC HGKVCELD NTPMCVCQDP TSCPAPIGEF EKVCSNDNKT FDSCHFAT KCTLEGTKKG HKLHLDYIGP CKYIAPCLDS ELTEFPLRMR DWLKNVLT YERDEGNLL TEKQKLRVKK IHENEKRL GDHPVELLAR DFEKNYNMYI FVHWQFGQL DQHPIDGYS HTELAPLRAP LIPMEHCCTR FETCDLDND KYIALEEWAG CFGIKEQDIN KDLVI </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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	Apolipoprotein B-100 (ApoB) is a predominant protein component found in chylomicrons (apo B-48), LDL (apo B-100), and VLDL (apo B-100). Apo B-100 serves as a recognition signal for the cellular binding and internalization of LDL particles through the apoB/E receptor. Its interactions with various proteins contribute to its functional roles, such as binding with PCSK9 and MTTP. Additionally, ApoB interacts with AUP1 and plays a crucial role in the early secretory pathway's COPI
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vesicle-mediated retrograde transport, facilitating coatomer recruitment to membranes. It enhances the coatomer-dependent activity of ARFGAP2 and contributes to the specific retention of p24 complexes in cis-Golgi membranes. ApoB is implicated in organizing intracellular membranes, including the ER-Golgi intermediate compartment and the Golgi apparatus. Furthermore, it plays a role in the ER localization of PTPN2 isoform PTPB and is involved in interactions with other members of the EMP24/GP25L family, such as TMED2, TMED7, and TMED10. These interactions, along with associations with COG1, PTPN2, SPAST, and STX17, contribute to ApoB's multifaceted involvement in vesicular protein trafficking and membrane organization within the cell.

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

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