

SPARCL1 Protein, Mouse (650a.a, HEK293, His)

Cat. No.:	HY-P76651
Synonyms:	SPARC-like protein 1; Extracellular matrix protein 2; Matrix glycoprotein Sc1; ECM2, SC1
Species:	Mouse
Source:	HEK293
Accession:	EDL20231.1 (I17-F650)
Gene ID:	13602
Molecular Weight:	Approximately 95-100 kDa

PROPERTIES

AA Sequence

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I P T S T R F L S D   H S N P T T A T L V   T P E D A T V P I A   G V E A T A D I E N
H P N D K A E K P S   A L N S E E E T H E   Q S T E Q D K T Y S   F E V D L K D E E D
G D G D L S V D P T   E G T L T L D L Q E   G T S E P Q Q K S L   P E N G D F P A T V
S T S Y V D P N Q R   A N I T K G K E S Q   E Q P V S D S H Q Q   P N E S S K Q T Q D
L K A E E S Q T Q D   P D I P N E E E E E   E E E E E E E E E E   E P E D I G A P S D
N Q E E G K E P L E   E Q P T S K W E G N   R E Q S D D T L E E   S S Q P T Q I S K T
E K H Q S E Q G N Q   G Q E S D S E A E G   E D K A A G S K E H   I P H T E Q Q D Q E
G K A G L E A I G N   Q K D T D E K A V S   T E P T D A A V V P   R S H G G A G D N G
G G D D S K H G A G   D D Y F I P S Q E F   L E A E R M H S L S   Y Y L K Y G G G E E
T T T G E S E N R R   E A A D N Q E A K K   A E S S P N A E P S   D E G N S R E H S A
G S C T N F Q C K R   G H I C K T D P Q G   K P H C V C Q D P E   T C P P A K I L D Q
A C G T D N Q T Y A   S S C H L F A T K C   R L E G T K K G H Q   L Q L D Y F G A C K
S I P A C T D F E V   A Q F P L R M R D W   L K N I L M Q L Y E   P N P K H G G Y L N
E K Q R S K V K K I   Y L D E K R L L A G   D H P I E L L L R D   F K K N Y H M Y V Y
P V H W Q F N E L D   Q H P A D R I L T H   S E L A P L R A S L   V P M E H C I T R F
F E E C D P N K D K   H I T L K E W G H C   F G I K E E D I D E   N L L F
  
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Biological Activity Measured by its ability to inhibit the cell growth of Mv-1-Lu mink lung epithelial cells. The ED₅₀ for this effect is 0.8933 μg/mL, corresponding to a specific activity is 1.12×10³ units/mg.

Appearance Lyophilized powder

Formulation Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 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 ddH₂O. 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**

SPARCL1 protein is predicted to possess crucial functions, including calcium ion binding activity, collagen binding activity, and extracellular matrix binding activity. Playing a role in synaptic membrane adhesion, it is prominently located in glutamatergic synapses. The expression profile of SPARCL1 spans across diverse structures, encompassing the cardiovascular system, central nervous system, male reproductive gland or organ, respiratory system, and sensory organ. This protein's biased expression, particularly elevated in the adult bladder and cortex, highlights its significance in these tissues, suggesting its involvement in various physiological processes. The conservation of SPARCL1 across species, as seen in its orthologous counterpart SPARC like 1 in humans, underscores its evolutionary importance and potential functional conservation.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA