

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 a multifunctional molecule with calcium ion, collagen and extracellular matrix binding activities. It is mainly localized at glutamatergic synapses and participates in the synaptic membrane adhesion process. SPARCL1 is widely expressed in multiple systems, including cardiovascular, central nervous, male reproductive, respiratory and sensory organ systems, and is particularly highly expressed in adult bladder and cortex, suggesting that it plays a key role in these tissues. The protein is highly conserved in evolution, and the existence of its human homolog SPARC like 1 further confirms its functional importance.

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

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