

ECM1 Protein, Rat (HEK293, His)

Cat. No.:	HY-P75264
Synonyms:	Extracellular matrix protein 1; Secretory component p85; Ecm1
Species:	Rat
Source:	HEK293
Accession:	Q62894/NP_446334.1 (A20-E562)
Gene ID:	116662
Molecular Weight:	Approximately 75-80 kDa due to the glycosylation.

PROPERTIES

AA Sequence

A S E G A F K V S D	Q R E M K P E H L F	Q H L H E V G Y A A	P P S P P Q T R R L
Q V H H S E T S P H	D P P L F E E Q K E	V Q P P S S P E D I	P V Y E E E W L T F
L N P N V G K V D P	A L P Q E A I P L Q	K E Q P P P R I P I	E Q K E I D P P V Q
H Q E E I V Q S R Q	K E E K P P T L T G	Q H P P E P R T W N	P A R H C Q Q G R R
G I W G H R L D G F	P P G R P S P D N L	K Q I C L P E R Q H	V V Y G P W N L P Q
T G Y S H L S R Q G	E A L N L L E T G Y	S R C C R C R S D T	N R L D C V K L V W
E D A M T Q F C E A	E F S V K T R P H L	C C K Q R G E E R F	S C F Q K E A P R P
D Y L L R P C P I H	Q T G I S S G T Q L	P F P P G L P T P D	N V K N I C L L R R
F R S V P R N L P A	T D A I Q R Q L Q A	L T R L E T E F Q R	C C R Q G H N H T C
T W K A W E D T L D	G Y C D R E L A I K	T H P H S C C H Y P	P S P A R D E C F A
H L A P Y P N Y D R	D L L T V D L S R V	T P N L M D H L C G	N G R V L S K H K Q
I P G L I Q N M T V	R C C E L P Y P E Q	A C C G E E E K L A	F I E D L C G P R R
N S W K D P A L C C	T L S P G D K Q A N	C F N T N Y L R N V	A L V A G D T G N A
T G L G Q Q G P T G	G T N V G P A P G S	K E E	

Biological Activity Measured by the ability of the immobilized protein to support the adhesion of the B16F1 mouse melanoma cells. The adhesion rate for this effect is 39.61% in the presence of 10 µg/mL Rat ECM-1.

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 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

ECM1 protein emerges as a multifaceted participant in cellular processes, particularly influencing endochondral bone formation by acting as a negative regulator of bone mineralization. Beyond its role in bone biology, ECM1 extends its influence to endothelial cells, where it stimulates proliferation and fosters angiogenesis. Notably, it exercises regulatory control over MMP9 proteolytic activity, contributing to the intricate balance of molecular events. In its functional repertoire, ECM1 engages in molecular interactions, forming associations with HSPG2, EFEMP1/FBLN3, LAMB3, and MMP9, thereby participating in a network of molecular relationships that underscore its significance in diverse cellular contexts.

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

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