VE-Cadherin Protein, Mouse (HEK293, His)

Cat. No.:	HY-P73559
Synonyms:	Cadherin-5; VE-cadherin; CD144; CDH5
Species:	Mouse
Source:	HEK293
Accession:	NP_033998.2 (G25-A592)
Gene ID:	12562
Molecular Weight:	approximately 85 kDa

PROPERTIES

AA Sequence	G P N F P Q I D T P N M L P A H H R Q K R D W I W N Q M H I D E E K N E S L P H Y V G K I K S N V N R Q N A K Y V L Q G E F A G K I F G V D A N T G N V L A Y E R L D R E K V S E Y F L T A L I V D K N T N K N L E Q P S S F T V K V H D I N D N W P V F S H Q V F N A S V P E M S A I G T S V I R V T A V D A D D P T V A G H A T V L Y Q I V K G N E Y F S I D N S G L I F T K I K N L D R E K Q A E Y K I V V E T Q D A L G L R G E S G T A T V M I R L E D I N D N F P V F T Q S T Y T F S V P E D I R V G K P L G F L T V V D P D E P Q N R M T K Y S I M Q G E Y R D T F T I E T D P K R N E G I I K P T K S L D Y E V I Q Q Y T F Y I E A T D P T I R Y E Y L S S T S G K N K A M V T I N V L D V D E P P V F Q R H F Y H F K L P E N Q K K P L I G T V V A K D P D K A Q R S I G Y S I R K T S D R G Q F F R I T K Q G N I Y N E K E L D R E T Y A W Y N L T V E A N E L D S R G N P V G K E S I V Q V Y I E V L D E N D N P P E F A Q P Y E P K V C E N A A Q G K L V V Q I S A T D K D V V P V N P K F K F A L K N E D S N F T L I N N H D N T A N I T V K Y G Q F N R E H A K F H Y L P V L I S D N G V P S L T G T S T L T V G V C K C N E Q G E F T F C E E M A A
Biological Activity	Measured in a cell proliferation assay using HUVEC cells. The ED_{50} this effect is 7.704 μg/mL, corresponding to a specific activity is 1.298×10^2 units/mg.
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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	VE-Cadherin, a member of the cadherin family, serves as a calcium-dependent glycoprotein crucial for mediating cell adhesion and orchestrating various morphogenetic events in development. The encoded preproprotein undergoes processing to generate a mature functional protein. In mice, the absence of VE-Cadherin leads to in utero mortality, primarily attributed to vascular insufficiency resulting from heightened endothelial apoptosis. Notably, multiple distinct genes within the cadherin family, including this gene, are situated on chromosome 8. The expression profile reveals bias towards certain tissues, with prominent levels observed in the lung and subcutaneous fat pad among others, underscoring its importance in tissue-specific functions.

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