

Product Data Sheet

VE-Cadherin Protein, Rat (HEK293, His)

Cat. No.:	HY-P73557		
Synonyms:	Cadherin-5; VE-cadherin; CD144; CDH5		
Species:	Rat		
Source:	HEK293		
Accession:	NP_001100877 (G25-Q585)		
Gene ID:	307618		
Molecular Weight:	Approximately 80-95 kDa		

PROPERTIES

AA Sequence						
	GPNMLPVHQR	QKRDWIWNQM	HIDEEKNESL	ΡΗΥΥGΚΙΚSΝ		
	VNRQNAKYVL	QGEQAGKIFR	VDADTGDVLA	YERLDREKVS		
	EYFLTALIVD	ККТΝКΝLЕQР	SSFTVKVHDV	ΝΟΝΨΡΥΓΤΗΟ		
	VFNASVPEMS	AIGTSVIRVT	ATDADDPTVA	GHATVLYQMV		
	KGNEYFAIDN	SGLIFTKDKN	LDRETRAEYK	IVVEAQDAQG		
	LRGESGTATV	LIRLEDINDN	FPIFTQSTYT	FSVPEDIRVG		
	KPLGSLSVED	PDEPQNRMTK	YSIMQGEYRD	TFTIETDPDR		
	NEGIIKPTKP	LDYELIQQYT	FHIEATDPTI	RLGYLSSTAG		
	KNKAKIIINV	LDVDEPPVFQ	RRFYHFHLPE	ΝΚΚΚΡΙΙGΤV		
	VAKDPDKAQR	SIGYSIRKTS	DRGQYFRITK	QGNIYNEKEL		
	DRETHAWYNL	TVEANELDSR	GNPVGKESIV	QIYIEVLDEN		
	DNAPEFAQPY	ЕРКVСЕNААQ	GKLVVQISAT	DKDVVPVNTK		
	FKFALKNEDS	NFTLINNHDN	ΤΑΝΙΤΥΚΥΟΟ	FNREHTKFHY		
	LPVLISDNGM	PSLTGTGTLT	VAVCKCNEQG	EFTFCEEMAA		
	Q					
Diala sizel Astivity	Manageral builts a billion of a			IFC calls The FD for this effect is 11.02		
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of HUVEC cells. The ED ₅₀ for this effect is 11.93 ng/mL. Corresponding to a specific activity is 8.382×10 ⁴ units/mg.					
	ng/mL. Corresponding to a	specific activity is 8.382×10	^r units/mg.			
Appearance	Lyophilized powder					
Appearance						
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.					
1 of matacion	Lyophiczed form a 0.2 µm fillered solution of FDS, pri 1.4.					
Endotoxin Level	<1 EU/µg, determined by LAL method.					
Endotoxin Eevet						
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/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					
<u> </u>	recommended to freeze aliquots at -20°C or -80°C for extended storage.					

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

VE-Cadherin Protein is predicted to play a crucial role in various cellular functions, including beta-catenin binding, enzyme binding, and signaling receptor binding activities. It is anticipated to be involved in processes such as cell-cell junction organization, regulation of protein modification, and regulation of protein-containing complex assembly. VE-Cadherin is predicted to function upstream of blood vessel maturation, cell-cell adhesion, and negative regulation of cell population proliferation. The protein is expected to be located in cell-cell junctions, the external side of the plasma membrane, and the nucleus, and it may participate in catenin complex formation. With predicted activity in adherens junctions and bicellular tight junctions, VE-Cadherin serves as a biomarker for pulmonary hypertension. Its human ortholog, cadherin 5 (CDH5), shows biased expression in lung and heart tissues, highlighting its importance in cardiovascular and pulmonary contexts.

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

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