

VE-Cadherin Protein, Rat (HEK293, C-His)

Cat. No.:	HY-P73558
Synonyms:	Cadherin-5; VE-cadherin; CD144; CDH5
Species:	Rat
Source:	HEK293
Accession:	NP_001100877 (M1-Q585)
Gene ID:	307618
Molecular Weight:	Approximately 116 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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 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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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