

VE-Cadherin Protein, Human (HEK293, His-Fc)

Cat. No.:	HY-P73560
Synonyms:	Cadherin-5; VE-cadherin; CD144; CDH5
Species:	Human
Source:	HEK293
Accession:	NP_001786.2 (A26-Q593)
Gene ID:	1003
Molecular Weight:	Approximately 120 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

DESCRIPTION

Background

The VE-Cadherin Protein, belonging to the classical cadherin superfamily, encodes a preproprotein that undergoes proteolytic processing to yield the mature glycoprotein. This calcium-dependent cell-cell adhesion molecule comprises five extracellular cadherin repeats, a transmembrane region, and a highly conserved cytoplasmic tail. Operating as a classical cadherin, it confers upon cells the ability to adhere in a homophilic manner, thereby playing a pivotal role in the assembly and maintenance of endothelial adherens junctions. Located in a gene cluster on the long arm of chromosome 16, this gene is implicated in loss of heterozygosity events in breast and prostate cancer. Noteworthy is its biased expression, with elevated levels observed in the placenta (RPKM 108.8), lung (RPKM 57.5), and 12 other tissues, underscoring its potential significance across a spectrum of physiological contexts.

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

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