

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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