For Research Use Only

Recombinant Mouse VE-cadherin/CD144 protein (His Tag)

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Catalog Number: Eg0921

Basic Information

Species: Mouse
Purity: >90 %, SDS-PAGE
Tag: His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse VE-cadherin protein Asp46-Ala592 (Accession# P55284) with a His tag at the C-terminus.

GeneID:
12562

Accession:
P55284

Predicted Molecular Mass:
63.1 kDa

SDS-PAGE:
65-80 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Cadherins are a family of transmembrane glycoproteins that mediate calcium-dependent cell-cell adhesion and play an important role in the maintenance of normal tissue architecture. Vascular endothelial cadherin (VE-cadherin), also known as Cadherin-5 (CDH5) or CD144, is a member of the type II classical cadherin family of cell adhesion proteins. VE-cadherin is expressed specifically in endothelial cells and mediates homophilic adhesion in the vascular endothelium. VE-cadherin plays a role in the organization of lateral endothelial junctions and in the control of permeability properties of vascular endothelium. VE-cadherin has also been shown to be required for angiogenesis.

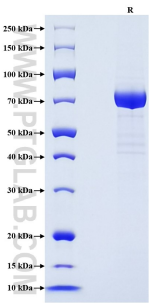
References

1. Julia Brasch, et al. (2011) J Mol Biol. 408(1):57-73.
2. M G Lampugnani, et al. (1992) J Cell Biol. 118(6):1511-22.
3. G Breier, et al. (1996) Blood. 87(2):630-41.
4. Yann Wallez, et al. (2006) Trends Cardiovasc Med. 16(2):55-9.
5. Dietmar Vestweber, et al. (2008) Arterioscler Thromb Vasc Biol. 28(2):223-32.

Synonyms

VE-cadherin, 7B4, cadherin 5, Cd144, Cdh5

Selected Validation Data



Purity of Recombinant Mouse VE-cadherin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.