

CD31/PECAM-1 Protein, Human, Recombinant (aa 28-601, His)

General Information

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| Synonyms: | PECAM-1;FLJ58394;GPIIA ¹ ;PECA1;EndoCAM;FLJ34100;CD31 |
| Protein Construction: | Gln28-Lys601 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P16284-1 |
| Molecular Weight: | 65.6 kDa (predicted). Due to glycosylation, the protein migrates to 80-90 kDa based on Tris-Bis PAGE result. |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM Tris, 150 mM NaCl (pH 7.5). Typically, 8% trehalose is incorporated as a protective agent before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Platelet endothelial cell adhesion molecule 1 (PECAM-1) is an adhesion and signaling receptor that is expressed on endothelial and hematopoietic cells and plays important roles in angiogenesis, vascular permeability, and regulation of cellular responsiveness.

Reference

Zhi H, et al. Generation of PECAM-1 (CD31) conditional knockout mice. *Genesis*. 2020 Feb;58(2):e23346. doi: 10.1002/dvg.23346. Epub 2019 Nov 15. PMID: 31729819; PMCID: PMC7021573.

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