

# Recombinant Human CD34 protein

**Cat. No.** CD34-266H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CD34, transcript variant 1, was expressed in CHO.                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | Possible adhesion molecule with a role in early hematopoiesis by mediating the attachment of stem cells to the bone marrow extracellular matrix or directly to stromal cells. Could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to lectins expressed by stromal cells or other marrow components. Presents carbohydrate ligands to selectins. |
| <b>Form</b>             | Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 27 kDa                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | LDNNGTATPELPTQGTFSNVSTNVSQYQETTTPLGSTSLHPVSQHGNEATTNITET<br>TVKFTSTSVITSVYGNTNSSVQSQTSTVISTVFTTPANVSTPETTLKPSLSPGNVSDLS<br>TTSTSLATSPTKPYTSSSPILSDIAEIKCSGIREVKLTQGICLEQNKTS SCAEFKKDR<br>GEGLARVLCGEEQADADAGAQCSSLLLAQSEVRPQCLLLVLNARTEISSKLQLMKK<br>HQSDLKKLGILDFTEQDVASHQSYSQKT                                                                                                              |
| <b>Endotoxin</b>        | Endotoxin level is <0.1 ng/g of protein (<1EU/g).                                                                                                                                                                                                                                                                                                                                               |

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|               |                                                            |
|---------------|------------------------------------------------------------|
| <b>Purity</b> | >95% as determined by SDS-PAGE and Coomassie blue staining |
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| <b>Concentration</b> | Resuspend the protein in the desired concentration in proper buffer |
|----------------------|---------------------------------------------------------------------|

## GENE INFORMATION

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| <b>Gene Name</b> | CD34 CD34 molecule [ Homo sapiens ] |
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|------------------------|------|
| <b>Official Symbol</b> | CD34 |
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|-----------------|--------------------------------------------------------------------------------|
| <b>Synonyms</b> | CD34; CD34 molecule; CD34 antigen; hematopoietic progenitor cell antigen CD34; |
|-----------------|--------------------------------------------------------------------------------|

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| <b>Gene ID</b> | 947 |
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| <b>mRNA Refseq</b> | NM_001025109 |
|--------------------|--------------|

|                       |              |
|-----------------------|--------------|
| <b>Protein Refseq</b> | NP_001020280 |
|-----------------------|--------------|

|            |        |
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| <b>MIM</b> | 142230 |
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|-------------------|--------|
| <b>UniProt ID</b> | P28906 |
|-------------------|--------|

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