

# Recombinant human CD34 protein

Catalog Number: ATGP3447

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

32-290aa

### UniProt No.

P28906

### NCBI Accession No.

NP\_001764.1

### Alternative Names

Hematopoietic progenitor cell antigen CD34 isoform b, CD34

## PRODUCT SPECIFICATION

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### Molecular Weight

28.6 kDa (268aa)

### Concentration

0.25mg/ml (determined by BCA assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CD34, also known as hematopoietic progenitor cell antigen CD34 isoform b, is a member of a family of single-pass transmembrane sialomucin proteins. It is 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. This protein could act as a scaffold for the attachment of lineage specific glycans, allowing stem cells to bind to

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lectins expressed by stromal cells or other marrow components. Recombinant human CD34, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADL>SLDNNGT ATPELPTQGT FSNVSTNVS Y QETTPSTLG STSLHPVSQH GNEATTNITE TTVKFTSTSV ITSVYGN TNS SVQSQTSVIS TVFTTPANVS TPETTLKPSL SPGNVSDLST TSTSLATSPT KPYTSSSPIL SDIKAEIKCS GIREVKLTQG ICLEQNKTSS CAEFKKDRGE GLARVLCGEE QADADAGA QV CSLLLAQSEV RPQCLLL VLA NRTEISSKLQ LMKKHQSDLK KLGILDFTEQ DVASHQSYSQ KT<HHHHHH>

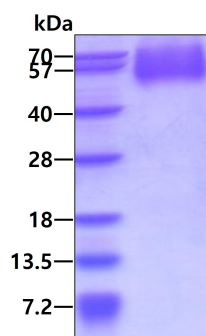
## General References

Nielsen JS., et al. (2009) Microcirculation. 16:487-496.

Mastrandrea F., et al. (2008) Eur Ann Allergy Clin Immunol. 40:90-103.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.