

# Human CD34 (His Tag) recombinant protein



Catalog Number: 504179

## General Information

### Protein Construction

A DNA sequence encoding the extracellular domain of human CD34 precursor (NP\_001020280.1) (Met 1-Thr 290) was expressed with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to bind human CD62L in a functional ELISA.
2. Measured by the ability of the immobilized protein to support the adhesion of the HUVEC human umbilical vein endothelial cell line. When  $4 \times 10^4$  cells/well are added to human CD34 coated plates (0.8  $\mu\text{g}/\text{ml}$ , 100  $\mu\text{l}/\text{well}$ ), approximately >40 % will adhere after one hour at 37 °C.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Ser 32

## Molecular Mass

The secreted recombinant human CD34 consists of 270 amino acids after removal of the signal peptide and has a predicted molecular mass of 29 kDa. In SDS-PAGE under reducing conditions, rh CD34 migrates with the apparent molecular mass between 40 and 50 kDa due to different glycosylation.

## Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

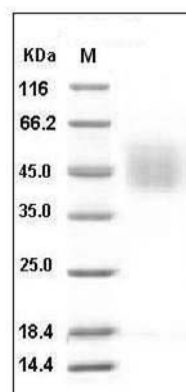
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human CD34 Protein (His Tag) SDS-PAGE