

Recombinant Human CD34

Certificate of Analysis and Data Sheet

➤ Source: E.Coli	➤ Catalog No. PRO-292
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➤ **Background:**

CD34 is a cell surface antigen formerly known as hemopoietic progenitor cell antigen-1. CD34 is expressed selectively on human hematopoietic progenitor cells . The biological function of CD34 is still unknown. It is used a surface marker for very early hematopoietic stem cells . Cells expressing CD34 respond to SCF (stem cell factor) and LIF in the presence of colony stimulating factors and these factors can induce myeloid differentiation in these cells. The effects of some growth factors on cells expressing CD34 are counteracted by IP-10 , a factor the expression of which is induced by IFN-gamma . The proliferation of human CD34 cells is stimulated also by IL-11 , and IL11 synergises with SCF , IL-3 , and GM-CSF . In the presence of human IL-17 , fibroblasts can sustain the proliferation of CD34 hematopoietic progenitors and their preferential maturation into neutrophils.

➤ **Description :**

Recombinant CD34 ,a 385 amino acid long protein,shows a band at 40kDa on SDS-PAGE commassie blue stained gel.
Recombinant CD34 is purified by proprietary chromatographic techniques.

➤ **Physical Appearance:**

Sterile filtered liquid.

➤ **Formulation:**

100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA, 20% Glycerol without BSA and Sodium Azide.

➤ **Stability:**

Store vial at -20C° to -80C°. When stored at the recommended temperature, CD34 is stable for 12 months.

Please avoid freeze-thaw cycles.

➤ **Purity:**

Greater than 90.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by reducing and non-reducing SDS-PAGE coomassie blue gel.

➤ **Dimers and aggregates:**

Less than 1% as determined by coomassie blue SDS-PAGE gel analysis.

➤ **Endotoxin:**

Less than 0.1 ng/μg (IEU/μg) of CD34.

➤ **Usage:**

This material is offered for research, laboratory or further evaluation purposes.