

Active Recombinant Human CD34, His-tagged, Biotinylated

Cat. No. CD34-572H Lot. No. (See product label)

SPECIFICATION

Product Overview The recombinant human CD34 ECD protein is expressed as a 280-amino acid protein consisting of Ser32 - Thr290 region of (UniProt accession #P28906) and a C-terminal His-tag. It contains 9 potential N-linked glycosylation sites.

Species Human

Source Human Cells

ProteinLength 32-290 a.a.

Form Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).

Bio-activity Interacts with L-selectin and supports the adhesion of the human umbilical vein endothelial cell line (HUVEC). Binds anti-CD34 monoclonal antibodies, human IgG1 and rabbit IgG by ELISA with this immobilized protein.

Molecular Mass Calculated molecular mass (kDa): 30; Estimated by SDS-PAGE under reducing condition (kDa): 75-90 suggesting that the protein may be heavily glycosylated.

AA Sequence
 SLDNNGTATPELPTQGTFNSVSTNVSQYQETTTTPSTLGSTSLHPVSQHGNEATTNITE
 TTVKFTSTSVITSVYGNT NSSVQSQTSVISTVFTTPANVSTPETTLKPSLSPGNVSDL
 STTSTSLATSPTKPYTSSSPILSDIKAEIKCSGI REVKLTQGICLEQNKTSSCAEFKKD
 RGEGLARVLCGEEQADADAGAQCSSLQAQSEVRPQCLLLVLANRTEIS SKLQLMK
 KHQSDLKKGILDFTEQDVASHQSYSQKTSTTENLYFQGSGTGHHHHHHHH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	<0.1 eu per 1 µg of purified recombinant protein determined by the
Purity	>92% judged by SDS-PAGE under reducing condition
Storage	The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.
Conjugation	Biotin
GENE INFORMATION	
Gene Name	CD34 CD34 molecule [Homo sapiens]
Official Symbol	CD34
Synonyms	CD34; CD34 molecule; CD34 antigen; hematopoietic progenitor cell antigen CD34;
Gene ID	947
mRNA Refseq	NM_001025109
Protein Refseq	NP_001020280
MIM	142230
UniProt ID	P28906
Chromosome	1q32

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Location**Pathway**

Adaptive Immune System, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Immune System, organism-specific biosystem;

Function

carbohydrate binding; sulfate binding; transcription factor binding;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA