

TECHNICAL DATA SHEET

Recombinant Human sCD34 (Carrier-free)

Catalog Number: 21-7174

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human sCD34 (Carrier-free)

DESCRIPTION

CD34 is a type I monomeric sialomucin-like glycoprophoprotein that is highly glycosylated and phosphorylated by protein kinase C. As CD34 protein is selectively expressed on hematopoietic progenitor cells it is extensively used as a molecular marker for identification, isolation and manipulation of hemopoietic stem cells and progenitors. The CD34 protein may play a role in the attachment of stem cells to the bone marrow extracellular matrix or to stromal cells. In addition to expression on hematopoietic progenitors, CD34 is expressed on some populations of mesenchymal stem cells, and by vascular endothelia in the adult. CD34 mediates cell adhesion and lymphocytes homing through binding to L-selectin and E-selectin ligands.

MOLECULAR MASS

Recombinant Human sCD34 is a 258 amino acid polypeptide containing only the extracellular domain of the full length CD34 protein. The calculated molecular weight of Recombinant Human sCD34 is 27.4 kDa.

AMINO ACID SEQUENCE

LDNNGTATPE LPTQGTFNSV STNVSQYQETT TPSTLGSTSL HPVSQHGNEA TTNITETTVK FTSTSVITSV YGNTNSSVQS QTSVISTVFT TPANVSTPET
 TLKPSLSPGN VSDLSTTSTS LATSPTKPYT SSSPILSDIK AEIKCSGIRE VKLTQGICLE QNKTSSCAEF KKDRGEGLAR VLCGEEQADA DAGAQVCSLL
 LAQSEVRPQC LLLVLANRTE ISSKLQLMKK HQSDLKGLGI LDFTEQDVAS HQSYSQKT

SOURCE

CHO cells

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1 EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

N/A

BIOACTIVITY

Testing in Progress.

RESEARCH AREAS

Stem Cells & Differentiation

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Moretta L, Pietra G, Vacca P, Pende D, Moretta F, Bertaina A, Mingari MC, Locatelli F and Moretta A. 2016. Immunol Lett. 178:15-9. Hombach AA, Görgens A, Chmielewski M, Murke F, Kimpel J, Giebel B, Abken H. 2016. Mol Ther. 24(8):1423-34

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