

Recombinant Mouse CD34 Protein (His Tag)

Catalog Number:PKSM040592



Note: Centrifuge before opening to ensure complete recovery of vial contents.

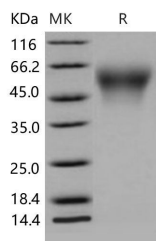
Description

Synonyms	AU040960
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met 1-Thr 287
Accession	NP_001104529.1
Calculated Molecular Weight	28.6 kDa
Observed molecular weight	50-60 kDa
Tag	C-His
Bioactivity	Measured by the ability of the immobilized protein to support the adhesion of the HUVEC human umbilical vein endothelial cell line. When 4×10^4 cells/well are added to mouse CD34 coated plates (0.8 $\mu\text{g/ml}$, 100 $\mu\text{l/well}$), approximately > 30 % will adhere after one hour at 37 °C.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 98 % as determined by reducing SDS-PAGE.

Background

Cluster of Differentiation 34 (CD34) is a member of a family of single-pass transmembrane sialomucin proteins, and may function as a cell-cell adhesion factor. CD34 protein is selectively expressed on hematopoietic progenitor cells and the small vessel endothelium of a variety of tissues. It has been widely used as a stem and progenitor cell marker, and clinical CD34+ stem cell transplantation (CD34+SCT) has been performed for tumor purging. CD34 monoclonal antibodies are

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widely used to identify and isolate hemopoietic progenitors and to classify acute and chronic leukemias.

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