# Recombinant Human ROBO4 Protein

## Catalog No.: RP01364

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## Sequence Information

**Species**
Human

**Gene ID**
54538

**Swiss Prot**
Q8WZ75

**Tags**
C-hFc&His

**Synonyms**
ROBO4,ECSM4,MRB

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE;≥95 % as determined by HPLC.

**Calculated MW**
74.26 kDa

**Observed MW**
100-120 kDa

**Endotoxin**
< 0.1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

Roundabout homolog 4, also known as magic roundabout and ROBO4 is a member of the immunoglobulin superfamily and ROBO family. ROBO4 is specifically expressed in endothelial cells. It is expressed at sites of angiogenesis in different tumor types. ROBO4 contains two fibronectin type-III domains and two Ig-like C2-type (immunoglobulin-like) domains. ROBO4 is the fourth identified member of the roundabout receptor family. It is the only Robo family member expressed in primary endothelial cells and that application of Slit inhibits their migration. ROBO4 is predominantly expressed in embryonic or tumor vascular endothelium and is considered important for vascular development and as a candidate tumor endothelial marker. ROBO4 is a bona fide member of the Robo family and may provide a repulsive cue to migrating endothelial cells during vascular development. ROBO4 is a receptor for Slit proteins, at least for SLIT2, and seems to be involved in angiogenesis and vascular patterning. ROBO4 may mediate the inhibition of primary endothelial cell migration by Slit proteins. Activating ROBO4 may have broad therapeutic application in diseases characterized by excessive angiogenesis and/or vascular leak.

## Basic Information

### Description
Recombinant Human ROBO4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln28-Arg467) of human ROBO4/ECSM4 (Accession #NP_061928.4) fused with a Fc, 6×His tag at the C-terminus.

### Activity

### Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

### Storage
Store at -20℃

### Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

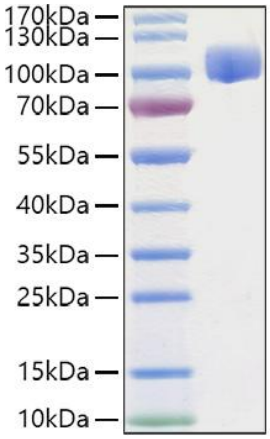
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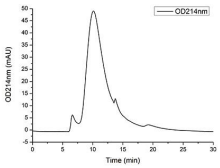


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## Validation Data




Recombinant Human ROBO4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.




The purity of Human ROBO4/ECSM4 Protein (Cat.RP01364) was greater than 95% as determined by SEC-HPLC.