

# Recombinant Human TIE2 Protein

Catalog No.: RP00373 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	7010	Q02763

### Tags

C-His

### Synonyms

Tie-2; Angiopoietin-1 receptor; TEK; VMCM; VMCM1; CD202b

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

### Endotoxin

< 1 EU/μg of the protein by LAL method

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

## Contact

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## Background

Angiopoietin-1 (Ang-1) is the primary agonist for Tie2 tyrosine kinase receptor (Tie2), and the effect of Ang-1-Tie2 signalling is context-dependent. Deficiency in either Ang-1 or Tie2 protein leads to severe microvascular defects and subsequent embryonic lethality in murine model. Tie2 receptors are expressed in several cell types, including endothelial cells, smooth muscle cells, fibroblasts, epithelial cells, monocytes, neutrophils, eosinophils and glial cells.

## Basic Information

### Description

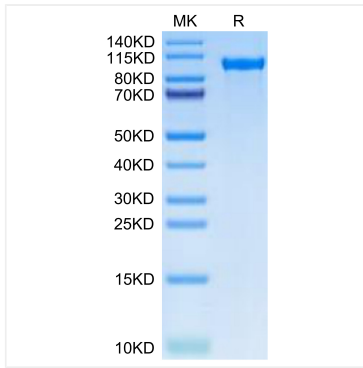
Recombinant Human TIE2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala23-Leu748) of Human TIE2 (Accession #Q02763) fused with a C-His tag at the C-terminus.

### Bio-Activity

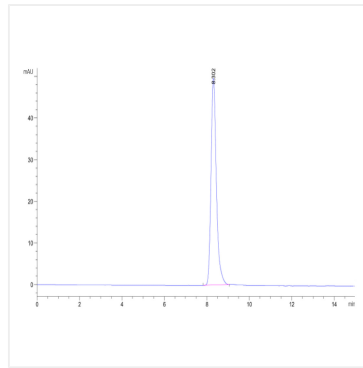
#### Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

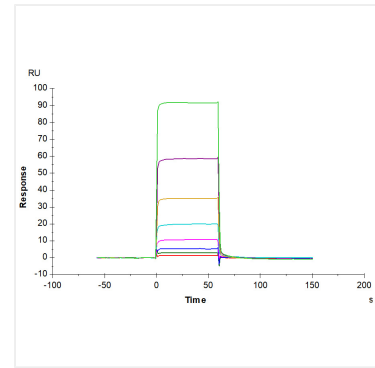
## Validation Data



Human TIE2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human TIE2 is greater than 95% as determined by SEC-HPLC.



Human TIE2, His Tag immobilized on CM5 Chip can bind Human ANGPT2, His Tag with an affinity constant of 2.38  $\mu\text{M}$  as determined in SPR assay (Biacore T200).