

Human TIE2 Protein

Cat. No. TIE-HM201



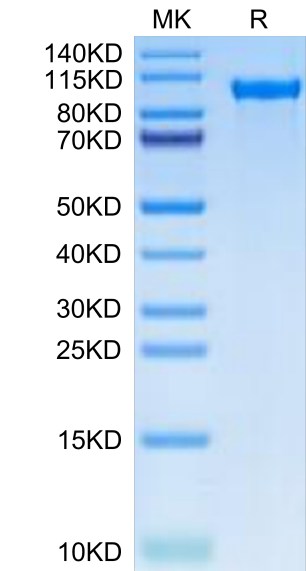
Description	
Source	Recombinant Human TIE2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala23-Leu748.
Accession	AAA61139.1
Molecular Weight	The protein has a predicted MW of 82.09 kDa. Due to glycosylation, the protein migrates to 90-110 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.	

Assay Data

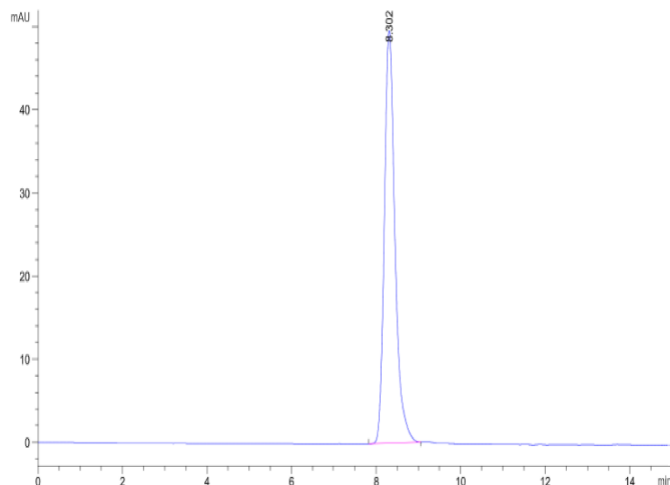
Bis-Tris PAGE



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

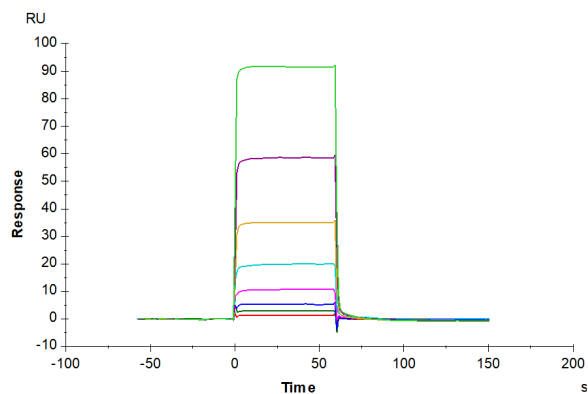
SEC-HPLC

Assay Data



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

SPR Data



Human TIE2, His Tag immobilized on CM5 Chip can bind Human ANGPT2, His Tag with an affinity constant of 2.38 μM as determined in SPR assay (Biacore T200).