

## TEK

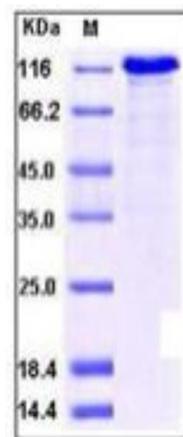
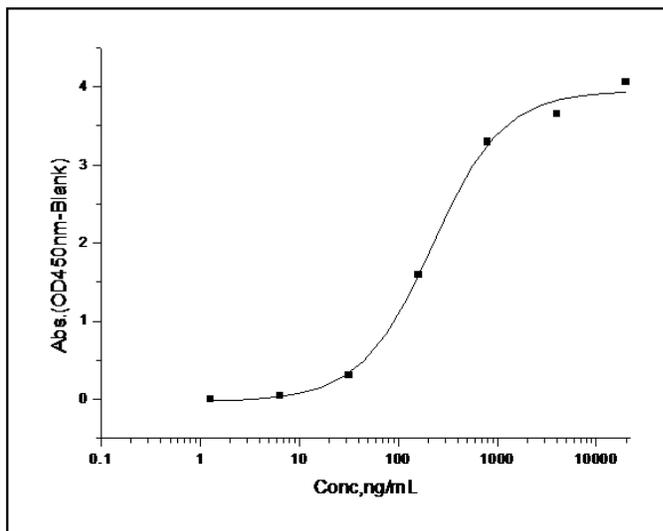
### Recombinant Human Angiopoietin-1 Receptor / TEK (His & Fc Tag)

<b>Catalog No.</b>	CRH546A-HisFc CRH546B-HisFc	<b>Quantity:</b>	100 µg 200 µg
<b>Alternate Names:</b>	Angiopoietin-1 receptor, Endothelial tyrosine kinase, Tunica interna endothelial cell kinase, Tyrosine kinase with Ig and EGF homology domains-2, Tyrosine-protein kinase receptor TEK, Tyrosine-protein kinase receptor TIE-2, hTIE2, p140 TEK, CD202b		
<b>Description:</b>	Angiopoietin-1 Receptor (TEK) is an endothelial cell-specific receptor tyrosine kinase (RTK) that is known as a functioning molecule of vascular endothelial cells. TEK comprises a subfamily of RTK with TIE, and these two receptors play critical roles in vascular maturation, maintenance of integrity and remodeling. Targeted mutagenesis of both Tek and its agonistic ligand, Angiopoietin-1, result in embryonic lethality, demonstrating that the signal transduction pathways mediated by this receptor are crucial for normal embryonic development. TEK signaling is indispensable for the development of the embryonic vasculature and suggests that TEK signaling may also be required for the development of the tumor vasculature.		
<b>UniProt ID:</b>	Q02763		
<b>Accession Number:</b>	NP_000450.2		
<b>Protein Construction:</b>	A DNA sequence encoding the extracellular domain (Met 1-Lys 745) of human TIE-2 precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.		
<b>Source:</b>	HEK293 Cells		
<b>Formulation:</b>	Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The rhTIE-2/Fc is a disulfide-linked homodimer. The reduced monomer consists of 970 amino acids and predicts a MW of 108.5 kDa. As a result of glycosylation, rhTIE-2/Fc migrates at ~125-135 kDa in reduced SDS-PAGE.		
<b>Purity:</b>	> 90 % as determined by SDS-PAGE.		
<b>Endotoxin Level:</b>	< 1.0 EU per µg protein as determined by the LAL method.		
<b>Biological Activity:</b>	Measured by its binding ability in a functional ELISA . Immobilized recombinant human Angiopoietin-2 at 10 µg/ml (100 µl/well) can bind Human TIE-2 / Fc chimera with a range of 0.2-20 µg/ml.		
<b>Predicted N-terminal:</b>	Ala 23		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		

**Storage & Stability:** Stable for up to 1 year from date of receipt at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$   
After reconstitution, store working aliquots at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ .  
**Avoid repeated freeze-thaw cycles.**

Measured by its binding ability in a functional ELISA.  
Immobilized recombinant human Angiopoietin-2 at 10  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) can bind Human Tie2 / Fc chimera with a range of 0.2-20  $\mu\text{g/ml}$ .

SDS-PAGE



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



**Cell Sciences®**  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)