

TEK

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

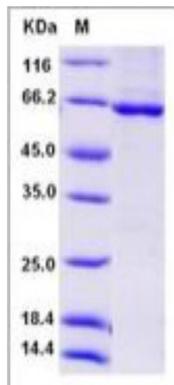
Catalog No.	CRH546A-HisGST CRH546B-HisGST	Quantity:	20 µg 50 µg
Alternate Names:	Angiopoietin-1 receptor, Endothelial tyrosine kinase, Tunica interna endothelial cell kinase, Tyrosine kinase with Ig and EGF homology domains-2, Tyrosine-protein kinase receptor TEK, Tyrosine-protein kinase receptor TIE-2, hTIE2, p140 TEK, CD202b		
Description:	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.		
UniProt ID:	Q02763		
Accession Number:	NP_000450		
Protein Construction:	A DNA sequence encoding the human TIE-2 (Gln771-Ala1124) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.		
Source:	Baculovirus-Insect Cells		
Formulation:	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% gly normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The rhTIE-2 /GST chimera consists of 591 amino acids and has a calculated molecular mass of 68.3 kDa. The rhTIE-2 /GST migrates at ~64 kDa band in reduced SDS-PAGE.		
Purity:	> 92 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	<ol style="list-style-type: none"> 1. No Kinase Activity 2. Measured by its binding ability in a functional ELISA. Immobilized human TEK (aa 771 -1124) at 2 µg/ml (100 µl/well) can bind human Ang2-Fc with a linear range of 0.31-20 µg/ml. 		
Predicted N-terminal:	Met		
Reconstitution:	Centrifuge vial prior to opening. 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. DO NOT VORTEX. Allow several minutes for complete reconstitution.		



Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C .
Avoid repeated freeze-thaw cycles.

SDS-PAGE



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