# Tek

# Recombinant Mouse Angiopoietin-1 Receptor / TEK (aa 770-1122, His & GST Tag)

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| **Catalog No.** | CRM729A-HisGST<br>CRM729B-HisGST | **Quantity:** | 20 µg<br>50 µg |

**Alternate Names:** Angiopoietin-1 receptor, Endothelial tyrosine kinase, HYK, STK1, 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, mTIE2, 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:** Q02858

**Protein Construction:** A DNA sequence encoding the mouse TEK (Gln770-Ala1122) 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 rmTEK/GST chimera consists of 590 aa with a predicted MW of 68.2 kDa and migrates at ~68 kDa in SDS-PAGE under reducing conditions.

**Purity:** > 91 % as determined by SDS-PAGE.

**Endotoxin Level:** < 1.0 EU per µg of the protein as determined by the LAL method

**Biological Activity:**
1. No Kinase Activity
2. In a functional ELISA, immobilized mouse TEK (aa 770-1122) at 2 µg/ml (100 µl/well) can bind human Ang2-Fc with a linear range of 0.25-2.0 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.

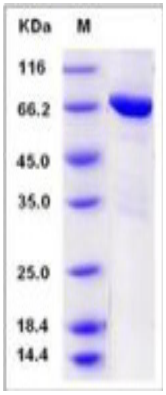
**Storage & Stability:** Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
**Avoid repeated freeze-thaw cycles.**

**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
Website: www.cellsciences.com

SDS-PAGE

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Toll Free: 888-769-1246
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