

# Recombinant Mouse Tie2/CD202b Protein (aa 770-1122, His<sup>6</sup> & GST Tag)

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by Elabscience

Catalog Number: PKSM040369

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

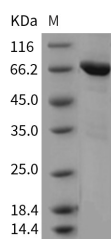
## Description

<b>Synonyms</b>	AA517024;Cd202b;Hyk;STK1;Tie-2;Tie2
<b>Species</b>	Mouse
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Gln770-Ala1122
<b>Accession</b>	Q02858
<b>Calculated Molecular Weight</b>	68.2 kDa
<b>Observed molecular weight</b>	68 kDa
<b>Tag</b>	N-His-GST
<b>Bioactivity</b>	1. No Kinase Activity. 2. 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.

## Properties

<b>Purity</b>	> 91 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0, 10% glycerol Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 91 % as determined by reducing SDS-PAGE.

## Background

TEK, or TIE-2, 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

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embryonic vasculature and suggests that TEK signaling may also be required for the development of the tumor vasculature.

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