# Recombinant Mouse Tek Protein, C-His-tagged

## Product Information

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| ***Cat*** | *IMP-4984* |
| ***Official Symbol*** | *Tek* |
| ***Product Overview*** | *Recombinant mouse TEK (Q02858) (Met1-Lys744) was expressed with a C-terminal polyhistidine tag.* |
| ***Description*** | *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 embryonic vasculature and suggests that TEK signaling may also be required for the development of the tumor vasculature.* |
| ***Expression System*** | *HEK293* |
| ***Species*** | *Mouse* |
| ***Tag*** | *C-His* |
| ***Predicted N Terminal*** | *Ala 23* |
| ***Form*** | *Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5% mannitol and 0.01% Tween80.* |
| ***Molecular Mass*** | *The recombinant mouse TEK comprises 733 amino acids and has a predicted molecular mass of 82 kDa. The apparent molecular mass of the protein is approximately 91 kDa in SDS-PAGE under reducing conditions due to glycosylation.* |
| ***Protein length*** | *Met1-Lys744* |
| ***Endotoxin*** | *< 1.0 EU/μg of the protein as determined by the LAL method* |
| ***Purity*** | *> 90 % as determined by SDS-PAGE* |
| ***Storage*** | *Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.* |
| ***Reconstitution*** | *A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.* |
| ***SDS-PAGE*** | |


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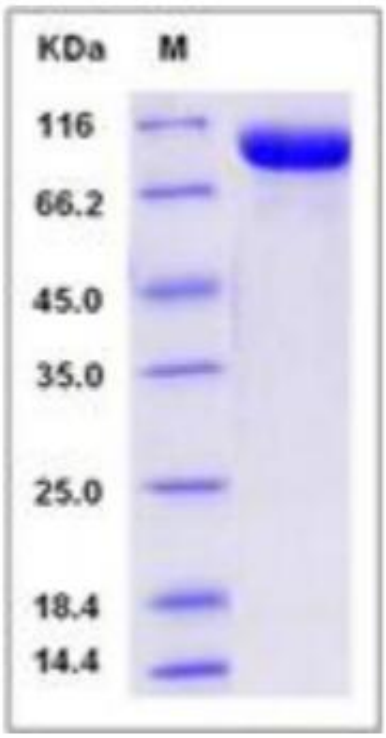


***Bioactivity-ELISA 1***


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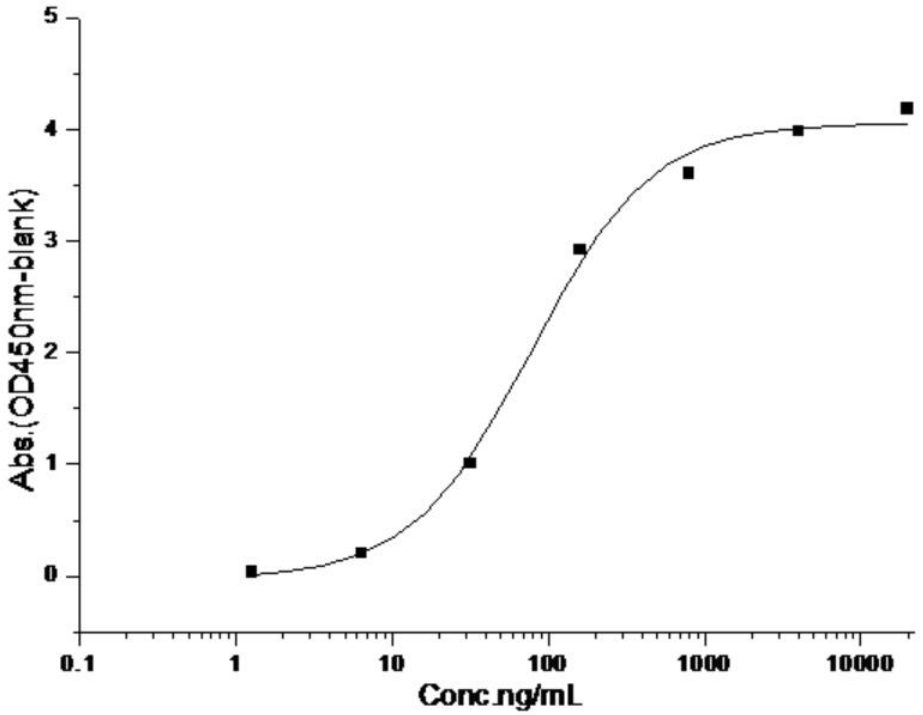


***Measured by its binding ability in a functional ELISA. Immobilized mouse TEK-His at 10 μg/mL (100 μL/well) can bind human Ang2-Fc with a linear range of 6.25-200 ng/mL.***


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