

## Recombinant Human TIE2 (N-GST tag) Cat No:HR2R2009

For research use only

## Overview

| Quantity              | 10 ?g  |
|-----------------------|--|
| Gene Symbol           | TIE 2  |
| Gene ID               | N/A  |
| Accession             | NM_000459  |
| Alternative<br>Name   | TEK, VMCM, VMCM1, CD202B   |
| Species               | Human  |
| Source                |  |
| Description           | TIE 2 or TEK is a receptor tyrosine kinase that is expressed principally on vascular endothelium. Disrupting TIE 2 function in mice results in embryonic lethality with defects in embryonic vasculature, suggesting a role in blood vessel maturation and maintenance. Angiopoietin-1 is a secreted growth factor that binds to and activates the TIE 2 receptor tyrosine kinase . SHP2 and GRB2 are recruited to the activated TIE 2 kinase domain and are part of the cellular responses that mediate TIE 2 function. TIE 2 expression is upregulated in the endothelium of vascular "hot spots" in human breast cancer specimens. However, TIE 2 is also overexpressed in areas of active angiogenesis in normal tissues . |
| Functions             | The specific activity of TIE 2 was determined to be 12 nmol /min/mg as per activity assay protocol   |
| Formulation           | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.   |
| Solubility            | N/A  |
| Appearance            | Liquid   |
| Molecular<br>Weight   | 61   |
| Purity                | 70% - 90%  |
| Concentration         |  |
| Shipping<br>Condition | Dry Ice  |
| Storage<br>Condition  | Store product at ?70?C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.  |