

## TIE2 (K855A) Recombinant Protein | TIE2 recombinant protein

TIE2 (K855A), Unactive

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73997</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Kinase Assay</b> |
|------------------------------|---------------------------------|-------------------------------------|

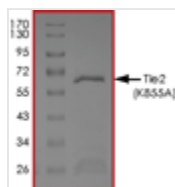
### PRODUCT SYNONYMS

TIE2 (K855A); Unactive; TIE-2; TEK; VMCM; VMCM1; CD202B; TIE2 recombinant protein

### PRODUCT SPECIFICATIONS

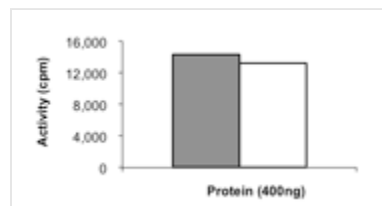
|                                                      |                                                                                                                                                                                                                                                |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | Sf9 insect cells                                                                                                                                                                                                                               |
| Form/Format                                          | Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                            |
| Applicable Applications for TIE2 recombinant protein | Kinase Assay                                                                                                                                                                                                                                   |
| Tag                                                  | GST                                                                                                                                                                                                                                            |
| Species                                              | Human                                                                                                                                                                                                                                          |
| Dry Ice Note                                         | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage                              | Store product at -70 degree 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. |

### IMAGES



#### SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



#### Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

### ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Related Product Information for TIE2 recombinant protein | <p>Recombinant human kinase-dead TIE2 (K855A)(771-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_000459.</p> <p>TIE2 or TEK is a receptor tyrosine kinase that is expressed principally on vascular endothelium. Disrupting TIE2 function in mice results in embryonic lethality with defects in embryonic vasculature, suggests a role in blood vessel maturation and maintenance. Angiopoietin-1 is a secreted growth factor that binds to and activates the TIE2 receptor tyrosine kinase (1). SHP2 and GRB2 are recruited to the activated TIE 2 kinase domain and are part of the cellular responses that mediate TIE2 function. TIE2 expression is upregulated in the endothelium of vascular "hot spots" in human breast cancer specimens. However, TIE2 is also overexpressed in areas of active angiogenesis in normal tissues (2).</p> |
| Product Categories/Family for TIE2 recombinant protein   | Mutant Kinase Proteins; Angiogenesis; Cancer; Cardiovascular Disease; Inflammation; Neurobiology; Receptor Tyrosine Kinases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## References

1. Woolf, A S. et al: Angiopoietin growth factors and Tie receptor tyrosine kinases in renal vascular development. *Pediatr Nephrol.* 2001 Feb;16(2):177-84.
2. Peters, K G. et al: Functional significance of Tie2 signaling in the adult vasculature. *Recent Prog Horm Res.* 2004;59:51-71.

## NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM\\_000459](#)

Molecular Weight

65kDa

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/tie2-k855a-recombinant-protein-sf9-kinase-assay/73997>