

# Cynomolgus TIE2 Protein; hFc Tag

## Product Information

|                        |                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b>    | Cynomolgus TIE2 Protein; hFc Tag                                                                                                                                                           |
| <b>Storage temp</b>    | Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| <b>Catalog# / Size</b> | GM-88828RP-100 / 100 $\mu\text{g}$<br>GM-88828RP-1000 / 1 mg                                                                                                                               |

## Protein Information

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Alternative Names</b>  | Tie-2, TEK, VMCM, VMCM1, CD202b, Angiopoietin-1 receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>             | Cynomolgus TIE2 Protein; hFc Tag (GM-88828RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 23 - Lys 745 (Accession # A0A2K5VRI3). This protein carries a hFc tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>             | > 90% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>          | < 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Predicted Mol Mass</b> | 106.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH 7.2–7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>        | TIE2 protein, is an important cell membrane receptor protein and a member of the angiopoietin receptor family. TIE2 protein plays a crucial role in regulating angiogenesis, vascular stability, and endothelial cell survival in normal physiological conditions. Abnormal expression or dysregulation of TIE2 protein is closely associated with the occurrence and development of various pathological conditions, particularly tumor angiogenesis, inflammatory diseases, and vascular malformations. In the tumor microenvironment, aberrant activation of the TIE2 signaling pathway—primarily through its ligands Angiopoietin-1 and Angiopoietin-2—can promote endothelial cell proliferation, vessel sprouting, and vascular remodeling, thereby facilitating tumor growth, metastasis, and therapeutic resistance. Additionally, TIE2-expressing macrophages (TEMs) have been implicated in immunosuppression and pro-tumoral inflammation. |

## Figures

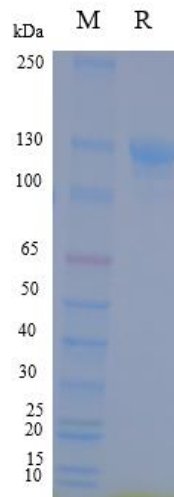


Figure 1 | On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

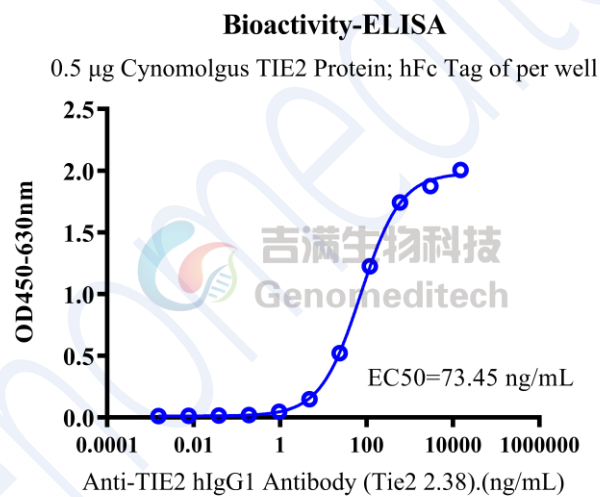


Figure 2 | Cynomolgus TIE2 Protein; hFc Tag (Catalog # GM-88828RP) was immobilized at 5  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-TIE2 hIgG1 Antibody (Tie2 2.38) (Catalog # GM-51860AB) were added.

**Related Products**

| Ang:Tie2                                         |                                             |
|--------------------------------------------------|---------------------------------------------|
| <a href="#">H_Tie2 HEK-293 Cell Line</a>         |                                             |
| <a href="#">Cynomolgus TIE2 Protein; His Tag</a> | <a href="#">Human TIE2 Protein; hFc Tag</a> |
| <a href="#">Human TIE2 Protein; His Tag</a>      |                                             |

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