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Human TIE2 Protein; His Tag

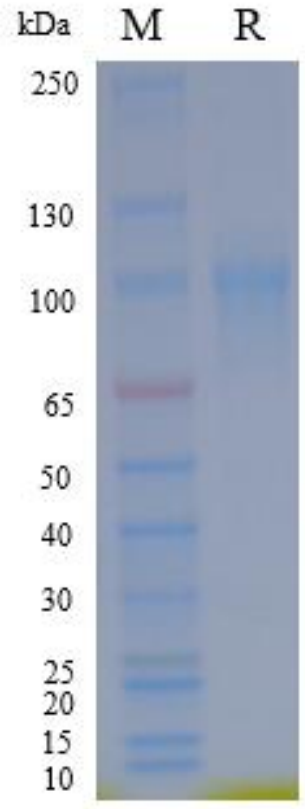
Product Information

Product Name	Human TIE2 Protein; His Tag
Storage temp	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	**GM-88569RP-100 / 100 μg** **GM-88569RP-1000 / 1 mg**

Protein Information

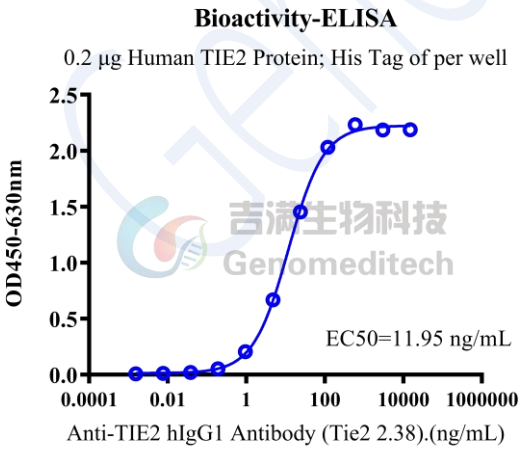
Alternative Names	Tie-2, TEK, VMCM, VMCM1, CD202b, Angiopoietin-1 receptor
Source	Human TIE2 Protein; His Tag (GM-88569RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 23 - Leu 748 (Accession # Q02763-1). This protein carries a His tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Predicted Mol Mass	81.8 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	TIE2 protein, full name Tyrosine Kinase with Immunoglobulin-like and Epidermal Growth Factor-like Domains 2 (also known as TEK), 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. In summary, TIE2 protein plays a pivotal role in angiogenesis and tumor progression, and holds significant value for understanding the mechanisms of vascular-related diseases, developing targeted anti-angiogenic therapies, and evaluating patient prognosis in combination with other treatment modalities.

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human TIE2 Protein; His Tag (Catalog # GM-88569RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-TIE2 hIgG1 Antibody (Tie2 2.38) (Catalog # GM-51860AB) were added.

Version:4.0