

# Human TIGIT Protein; His Tag

## Product Information

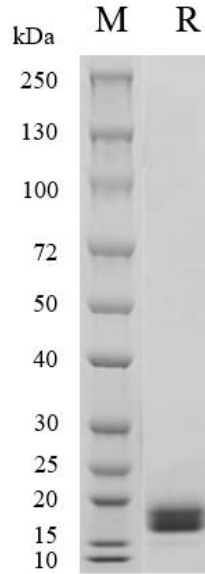
<b>Product Name</b>	Human TIGIT Protein; His Tag
<b>Storage temp.</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-87661RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-87661RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	TIGIT, VSIG9, VSTM3
<b>Source</b>	Human TIGIT Protein; His Tag (GM-87661RP) is expressed from human 293 cells (HEK-293). It contains AA Met 22 - Pro 141 (Accession # Q495A1-1). This protein carries a His tag at the C-terminus.
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	13.9 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.4.
<b>Description</b>	<p>The TIGIT protein (T cell immunoreceptor with Ig and ITIM domains) is an immune receptor belonging to the immunoglobulin superfamily. The TIGIT protein plays an important role in regulating immune responses and maintaining immune balance.</p> <p>The structure of the TIGIT protein includes an immunoglobulin domain, a transmembrane domain, and an intracellular immunoreceptor tyrosine-based inhibitory motif (ITIM) domain. The TIGIT protein is mainly expressed in T cells, NK cells, and regulatory T cells. It binds to its ligand CD155 (also known as PVR) and regulates the activation and function of immune cells through its ITIM domain.</p> <p>The TIGIT protein plays a crucial role in regulating T cell activation and function, primarily through competitive inhibitory signals that suppress T cell activation and effector functions. Additionally, the TIGIT protein is also involved in regulating the activation and function of NK cells, playing an important role in immune responses and immune tolerance.</p>

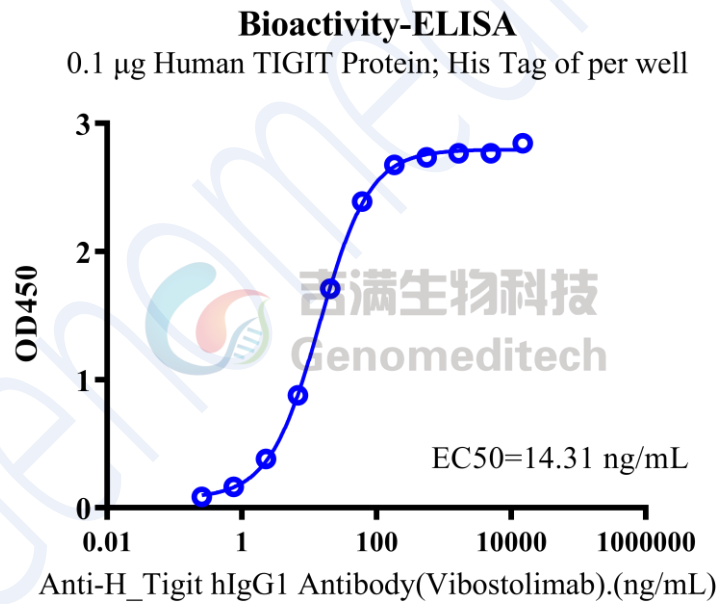
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## SDS-PAGE



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 TIGIT Protein; His Tag (Catalog # GM-87661RP) was immobilized at 1  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-H\_Tigit hIgG1 Antibody(Vibostolimab) (Catalog # GM-24029AB) were added.