

# Recombinant Human TIGIT Protein, His\Avi-tagged

**Cat. No.** TIGIT-184H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Biotinylated Recombinant Human T cell Immunoreceptor with Ig and ITIM domains is produced by our Mammalian expression system and the target gene encoding Met22-Pro141 is expressed with a 6His, Avi tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 22-141 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | T cell immunoreceptor with Ig and ITIM domains (TIGIT) is a member of the CD28 family within the Ig superfamily of proteins. TIGIT is expressed on NK cells and subsets of activated, memory and regulatory T cells, and particularly on follicular helper T cells within secondary lymphoid organs. It binds to CD155 and Nectin-2 that appear on dendritic cells (DC) and endothelium. Ligation of TIGIT on T cells down-regulates TCR-mediated activation and subsequent proliferation, while NK cell TIGIT ligation blocks NK cell cytotoxicity. Through CD155 and Nectin-2, which also interact with DNAM-1/CD226 and CD96/Tactile, TIGIT is part of an interacting network of Ig superfamily members that may augment or oppose each other. In particular, TIGIT binding to CD155 can antagonize the effects of DNAM1. |
| <b>Form</b>             | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | Met22-Pro141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                  |                                |
|------------------|--------------------------------|
| <b>Endotoxin</b> | Less than 0.1 ng/ug (1 EU/ug). |
|------------------|--------------------------------|

|                 |         |
|-----------------|---------|
| <b>Shipping</b> | Ambient |
|-----------------|---------|

## GENE INFORMATION

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| <b>Gene Name</b> | TIGIT T cell immunoreceptor with Ig and ITIM domains [ Homo sapiens (human) ] |
|------------------|-------------------------------------------------------------------------------|

|                        |       |
|------------------------|-------|
| <b>Official Symbol</b> | TIGIT |
|------------------------|-------|

|                 |                                                                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b> | T-cell immunoreceptor with Ig and ITIM domains; VSIG9; VSTM3; TIGIT; V-set and transmembrane domain-containing protein 3; V-set and immunoglobulin domain-containing protein 9; WUCAM |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                |        |
|----------------|--------|
| <b>Gene ID</b> | 201633 |
|----------------|--------|

|                    |             |
|--------------------|-------------|
| <b>mRNA Refseq</b> | NM_173799.4 |
|--------------------|-------------|

|                       |             |
|-----------------------|-------------|
| <b>Protein Refseq</b> | NP_776160.2 |
|-----------------------|-------------|

|            |        |
|------------|--------|
| <b>MIM</b> | 612859 |
|------------|--------|

|                   |        |
|-------------------|--------|
| <b>UniProt ID</b> | Q495A1 |
|-------------------|--------|

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA