

## TMIGD2 active protein

TMIGD2 Protein, Human, Recombinant (His Tag)

CATALOG #  
**AAA258028**

HOST  
**HEK293 Cells**

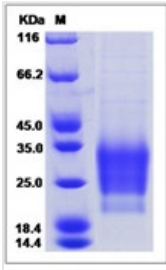
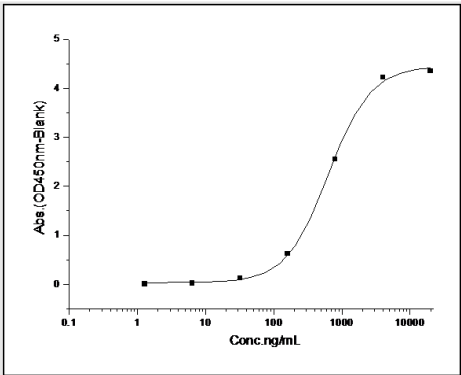
### PRODUCT SYNONYMS

TMIGD2; TMIGD2 Protein; Human; Recombinant (His Tag); Human IGPR-1/TMIGD2 Protein (His Tag); IGPR-1 Protein; IGPR1 Protein; TPC1 Protein; transmembrane and immunoglobulin domain containing 2; TMIGD2 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Purity/Purification     | >85% as determined by Nu-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form/Format             | Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.                                                                                                                                                                                                                                                                                       |
| Sequence                | Met1-Gly150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Endotoxin               | <1.0EU per ug protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Predicted N Terminal    | Leu 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Tag                     | C-His                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Protein Construction    | A DNA sequence encoding the human TMIGD2 (NP_653216.2)(Met1-Gly150) was expressed with a polyhistidine tag at the C-terminus.                                                                                                                                                                                                                                                                                                                                                                            |
| Reconstitution          | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                                                                                                                                                                                                          |
| Activity                | 1.Measured by its binding ability in a functional ELISA. 2.Immobilized human TMIGD2 at 10ug/mL (100uL/well) can bind human HHLA2-Fc. The EC50 of human HHLA2-Fc is 0.3-3ug/mL.                                                                                                                                                                                                                                                                                                                           |
| Preparation and Storage | Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.<br>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid.<br>They are shipped out with blue ice. |

IMAGES



SDS-PAGE

**Application Data**  
Measured by its binding ability in a functional ELISA. Immobilized human TMIGD2 at 10 ug/mL (100 uL/well) can bind human HHLA2-Fc, the EC50 of human HHLA2-Fc is 0.3-3ug/mL.

ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TMIGD2 active protein | Background: The orthologue of human IGPR-1 is found only in eukaryotes, including primates, the guinea pig, canines, felines, dolphins, bovines, the llama, bats, the common shrew, and horses. Of interest, the IGPR-1 gene is absent in mouse and rat genomes. The immunoglobulin domain of IGPR-1 was predicted to be Ig V (variable) fold and was found to be highly similar to the Ig domain of myelin-associated glycoprotein. |
| Product Categories/Family for TMIGD2 active protein   | Cancer Drug Targets                                                                                                                                                                                                                                                                                                                                                                                                                  |
| References                                            | Rahimi N, Rezazadeh K, Mahoney JE, Hartsough E, Meyer RD. Identification of IGPR-1 as a novel adhesion molecule involved in angiogenesis. Nusrat A, ed. Molecular Biology of the Cell. 2012;23(9):1646-1656.                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| NCBI GI #                        | 281306838                                                              |
| NCBI GeneID                      | 126259                                                                 |
| NCBI Accession #                 | NP_653216.2                                                            |
| NCBI GenBank Nucleotide #        | NM_144615.2                                                            |
| UniProt Accession #              | Q96BF3; Q6UW59                                                         |
| Molecular Weight                 | 30,319 Da                                                              |
| NCBI Official Full Name          | transmembrane and immunoglobulin domain-containing protein 2 isoform 1 |
| NCBI Official Synonym Full Names | transmembrane and immunoglobulin domain containing 2                   |
| NCBI Official Symbol             | TMIGD2                                                                 |
| NCBI Official Synonym Symbols    | CD28H; IGPR1; IGPR-1                                                   |
| NCBI Protein Information         | transmembrane and immunoglobulin domain-containing protein 2           |
| UniProt Protein Name             | Transmembrane and immunoglobulin domain-containing protein 2           |
| UniProt Gene Name                | TMIGD2                                                                 |
| UniProt Synonym Gene Names       | CD28H; IGPR1; IGPR-1                                                   |
| UniProt Entry Name               | TMIG2_HUMAN                                                            |

**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/hek293-cells-active-protein/tmigd2/258028>