

TMIGD2/CD28H active protein

Recombinant human TMIGD2/CD28H protein

CATALOG # AAA48995	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

TMIGD2/CD28H; Recombinant human TMIGD2/CD28H protein; TMIGD2; Transmembrane and immunoglobulin domain-containing protein 2 isoform1; CD28 homolog; CD28H; Immunoglobulin and proline-rich receptor 1; IGPR-1; IGPR1; TMIGD2/CD28H active protein

PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	95% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	1mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	23-150aa
Sequence	Leu23 L SVQQGPNLLQ VRQGSQATLV CQVDQATAWE RLRVKWTKDG AILCQPYITN GSLSLGVCGP QGRLSWQAPS HLTLQLDPVS LNHS GAYVCW AAVEIPELEE AEGNITRLFV DPDDPTQNRN RIASFPG
Applicable Applications for TMIGD2/CD28H active protein	Bioactivity, SDS-PAGE
Species	Human
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Tag	hIgG-Tag
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

ADDITIONAL INFORMATION

Related Product Information for TMIGD2/CD28H active protein	TMIGD2, also known as IGPR-1, is a member of the Immunoglobulin family. This protein shares approximately 10% amino acid sequence identity with CD28, CTLA-4, ICOS, and PD-1. The immunoglobulin domain of TMIGD2 was predicted to be Ig V fold and was found to be highly similar to the Ig domain of myelin-associated glycoprotein. It plays a role in cell-cell interaction, cell migration, and angiogenesis. Through interaction with HHLA2, co-stimulates T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade. It is constitutively expressed on naive T and NK cells. Similar to the interaction of B7 with CD28, the interaction of TMIGD2 with B7-H7 activates the Akt-dependent signaling cascade and promotes the proliferation and activation of newly generated peripheral effector and memory T cells. Also, it interacts with multiple cytoskeletal proteins. Recombinant human TMIGD2, fused to hIgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for TMIGD2/CD28H active protein	Immunology , Cell Cycle , Other ; Proteins
References	Rahimi N, et al. (2012) Mol. Biol. Cell 23:1646-1656. Parry, R.V. et al. (2003) J.Immunol. 171:166-174.

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://stage.aaabiotech.com/hek293-active-protein/tmigd2-cd28h/48995>