

Recombinant Human TMIGD2 protein, His-tagged

Cat. No. TMIGD2-271H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TMIGD2 (Leu23-Gly150) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Leu23-Gly150
Description	CD28 homolog (CD28H), also called transmembrane and immunoglobulin domain containing 2 (TMIGD2) and IGPR-1, is encoded by the TMIGD2 gene. CD28H is constitutively expressed on naive T and NK cells. After interaction of CD28 homolog with B7 homologue, the peripheral effector and memory T cells can be activated and proliferated by Akt-dependent signalling cascade. Plays a role in cell-cell interaction, cell migration, and angiogenesis. Through interaction with HHLA2, costimulates T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade.
Predicted N Terminal	Leu23
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 15.9 kDa. The protein migrates as 22-32 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% as determined by reduced SDS-PAGE.
Storage	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.</p>
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

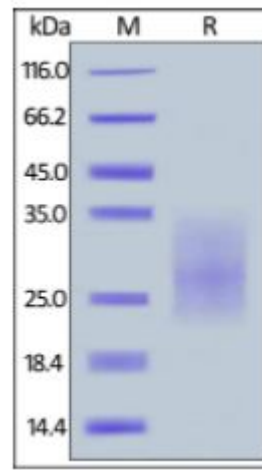
Gene Name	TMIGD2
Official Symbol	TMIGD2
Synonyms	IGPR1; IGPR-1
Gene ID	126259
mRNA Refseq	NM_144615.2
Protein Refseq	NP_653216.2
MIM	614715
UniProt ID	Q96BF3

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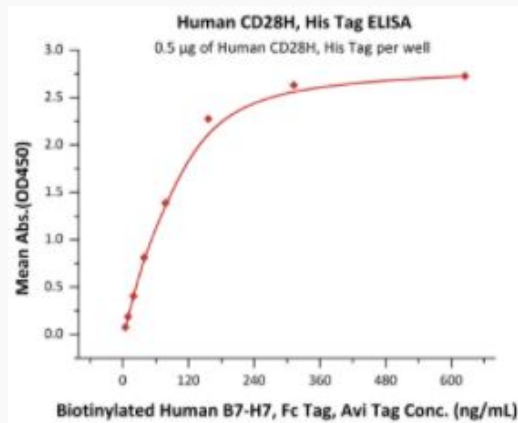
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**SDS-PAGE of
TMIGD2-271H**



Human CD28H, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity-ELISA of
TMIGD2-271H**



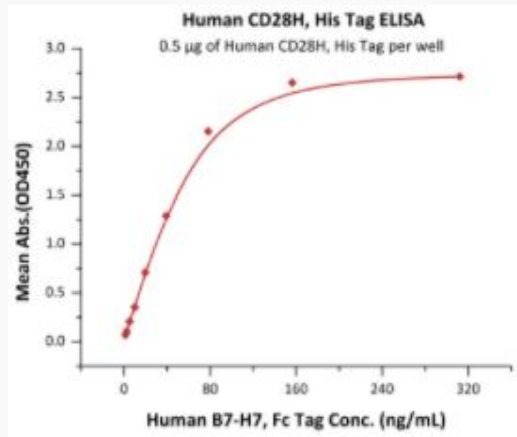
Immobilized Human CD28H, His Tag at 5 µg/mL (100 µL/well) can bind Biotinylated Human B7-H7, Fc Tag, Avi Tag with a linear range of 10-156 ng/mL (QC tested).

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Bioactivity-ELISA



Immobilized Human CD28H, His Tag at 5 µg/mL (100 µL/well) can bind Human B7-H7, Fc Tag with a linear range of 1-78 ng/mL (Routinely tested).

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