TMIGD2 Protein, Human (HEK293, His)

Cat. No.:	HY-P71370
Synonyms:	Transmembrane and immunoglobulin domain-containing protein 2; Immunoglobulin and proline-rich receptor 1; IGPR1; TMIGD2
Species:	Human
Source:	HEK293
Accession:	Q96BF3 (L23-G150)
Gene ID:	126259
Molecular Weight:	Approximately 30.0 kDa

PROPERTIES

AA Sequence	L S V Q Q G P N L L Q V R Q G S Q A T L V C Q V D Q A T A W E R L R V K W T K D G A I L C Q P Y I T N G S L S L G V C G P Q G R L S W Q A P S H L T L Q L D P V S L N H S G A Y V C W A A V E I P E L E E A E G N I T R L F V D P D D P T Q N R N R I A S F P G
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background	TMIGD2, a multifaceted protein, actively participates in various cellular processes such as cell-cell interaction, cell migration, and angiogenesis. Its interaction with HHLA2 highlights its role in costimulating T-cells during TCR-mediated activation, thereby enhancing T-cell proliferation and cytokine production through an AKT-dependent signaling cascade. TMIGD2 may also engage in homophilic interactions, potentially regulating cell-cell communication. Additionally, it forms interactions with CACNB2, DST, MIA, and NCKIPSD, indicating its involvement in diverse cellular pathways and signaling networks. These interactions collectively underscore the versatile functions of TMIGD2 in orchestrating essential cellular activities.

Caution: Product has not been fully validated for medical applications. For research use only.

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