TIM-3/HAVCR2 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P7415
Synonyms:	rHuTIM-3, Fc Chimera; TIMD-3; CD366; HAVCR2
Species:	Human
Source:	HEK293
Accession:	Q8TDQ0 (S22-R200)
Gene ID:	84868
Molecular Weight:	60-65 kDa

PROPERTIES

AA Sequence	S E V E Y R A E V G Q N A Y L P C F Y T P A A P G N L V P V C W G K G A C P V F E C G N V V L R T D E R D V N Y W T S R Y W L N G D F R K G D V S L T I E N V T L A D S G I Y C C R I Q I P G I M N D E K F N L K L V I K P A K V T P A P T R Q R D F T A A F P R M L T T R G H G P A E T Q T L G S L P D I N L T Q I S T L A N E L R D S R L A N D L R D S G A T I R
Biological Activity	1.Immobilized TIM-3, hFc, Human at 0.5 μg/mL, the concentration of Anti-TIM3 mouse antibody (Genscript) that produces 50% optimal binding response is found to be approximately 5.0 ng/mL. 2.Immobilized Galectin-9, His, Human at 0.5 μg/mL (100 μL/well) can bind TIM-3, hFc, Human with a linear range of 0.78-6.25 μg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 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	T Cell Immunoglobulin Mucin 3 (TIM-3), also known as Hepatitis A virus cellular receptor 2 (HAVCR2), is an immunomodulatory molecule and upregulated in T cells by several cytokines. TIM-3 also influences mast cell function but

its transcriptional regulation in mast cells has not been clarified. Human TIM-3 consists of a membrane distal variable immunoglobulin (IgV)-like domain involved in ligand interactions, a membrane proximal mucin domain and a transmembrane domain that is connected to an intracellular cytoplasmic tail involved in phosphotyrosine-dependent signaling[1][2][3].

REFERENCES

[1]. Homayouni V, et al. Stimulation of Camel Polyclonal Antibody against Human T cell Immunoglobulin and Mucin 3. Iran J Biotechnol. 2017 Sep 27;15(3):166-171

[2]. Kim JS, et al. T Cell Immunoglobulin Mucin Domain (TIM)-3 Promoter Activity in a Human Mast Cell Line. Immune Netw. 2012 Oct;12(5):207-12.

[3]. Gandhi AK, et al. High resolution X-ray and NMR structural study of human T-cell immunoglobulin and mucindomain containing protein-3. Sci Rep. 2018 Nov 30;8(1):17512.

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

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