

Active Recombinant Mouse Timd4, Fc-tagged

Cat. No. Timd4-517M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The extracellular domain of mouse Tim-4 (aa 22-279) is fused to the N-terminus of the Fc region of human IgG1.

Species

Mouse

Source

CHO

Description

Mouse T cell immunoglobulin and mucin domain-containing protein 4, also known as T cell membrane protein 4, TIMD4 and TIM4 is a single-pass type I membrane protein which belongs to the immunoglobulin superfamily and TIM family. TIM4 contains one Ig-like V-type (immunoglobulin-like) domain. It is expressed on dendritic cells and macrophages. TIM4 plays an important role in the proliferation of T helper type 2 (Th2) cells. TIM4 is involved in regulating T cell proliferation and lymphotoxin signaling. It is a ligand for HAVCR1 / TIMD1. The expression of TIM4 in fibroblasts enhanced their ability to engulf apoptotic cells. TIM4 and TIM1 are phosphatidylserine receptors for the engulfment of apoptotic cells and may also be involved in intercellular signaling in which exosomes are involved. Modulation of TIM4 production in dendritic cells (DCs) represents a novel therapeutic approach for the treatment of peanut allergy.

Form

Lyophilized from 0.2µm-filtered solution in PBS.

Bio-activity

Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells.

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Purity	≥98% (SDS-PAGE)
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.
GENE INFORMATION	
Gene Name	Timd4 T cell immunoglobulin and mucin domain containing 4 [Mus musculus]
Official Symbol	Timd4
Synonyms	TIMD4; T cell immunoglobulin and mucin domain containing 4; T-cell immunoglobulin and mucin domain-containing protein 4; TIMD-4; smuckler; T-cell membrane protein 4; T-cell immunoglobulin and mucin domain containing 4; spleen, mucin-containing, knockout of lymphotoxin protein; Tim4; TIM-4; B430010N18Rik;
Gene ID	276891
mRNA Refseq	NM_178759
Protein Refseq	NP_848874

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