

Recombinant Human TIMD4, Fc-tagged

Cat. No. TIMD4-516H Lot. No. (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human Tim-4 (aa 25-315) is fused to the N-terminus of the Fc region of human IgG1.
Species	Human
Source	CHO
Description	The TIM (T cell/transmembrane, immunoglobulin and mucin) family plays a critical role in regulating immune responses, including allergy, asthma, transplant tolerance, autoimmunity and the response to viral infections. The unique structure of TIM immunoglobulin variable region domains allows highly specific recognition of phosphatidylserine (PtdSer), exposed on the surface of apoptotic cells. TIM-4 (T cell; immunoglobulin; Mucin-4), also known as SMUCKLER, is a 60 kDa member of the TIM family of immune regulating proteins. TIM-4 is exclusively expressed on antigen-presenting cells, where it mediates phagocytosis of apoptotic cells and plays an important role in maintaining tolerance. TIM-4 binds specifically to TIM-1 which is also the cellular receptor for the hepatitis A virus, and has been implicated in the development of asthma. Among hematopoietic cells, TIM-1 is expressed on activated B and T cells, preferentially in the Th2 subset of CD4+ T cells. The interaction of TIM-4 with TIM-1 induces costimulatory and hyperproliferative signals in T cells.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Purity	≥98% (SDS-PAGE)

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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 [Homo sapiens]

Official Symbol

TIMD4

Synonyms

TIMD4; T-cell immunoglobulin and mucin domain containing 4; T-cell immunoglobulin and mucin domain-containing protein 4; TIM-4; TIMD-4; T-cell membrane protein 4; TIM4; SMUCKLER; FLJ27515;

Gene ID

91937

mRNA Refseq

NM_001146726

Protein Refseq

NP_001140198

MIM

610096

UniProt ID

Q96H15

**Chromosome
Location**

5q33.3

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