

## Human CellExp™ TIM-4, human recombinant

<b>CATALOG NO:</b>	P1108-10 P1108-50	10 µg 50 µg
<b>ALTERNATE NAMES:</b>	TIM4; TIMD4, T Cell Immunoglobulin and Mucin Domain-containing Protein 4, T Cell Membrane Protein 4	
<b>SOURCE:</b>	CHO cells	
<b>PURITY:</b>	≥ 98% by SDS – PAGE	
<b>SEQUENCE:</b>	The extracellular domain of human Tim-4 (aa 25-315) is fused to the N-terminus of the Fc region of human IgG1.	
<b>ENDOTOXIN LEVEL:</b>	<0.06 EU/µg protein by LAL method	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Lyophilized from 0.2 µm-filtered solution in PBS	
<b>STORAGE CONDITIONS:</b>	Short term storage at +4°C (1-2 weeks). For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.	
<b>RECONSTITUTION:</b>	Reconstitute with 100 µl sterile water. Add 1X PBS to the desired protein concentration.	
<b>DESCRIPTION:</b>	<p>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.</p>	
<b>BIOLOGICAL ACTIVITY:</b>	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells	

### RELATED PRODUCT:

- Human CellExp™ TIM3/HAVR2 Protein, Human Recombinant (**Cat. No. P1002-20, -100**)
- Human CellExp™ HAVCR1/KIM1/TIM1, human recombinant (**Cat. No. 7494-10, -50**)
- Human CellExp™ CD71, human recombinant (**Cat. No. 7279-10, -50**)
- Human CellExp™ CD273, human recombinant (**Cat. No. 7369-10, -50**)
- Human CellExp™ CD33, human recombinant (**Cat. No. 7370-10, -50**)
- Human CellExp™ CD36, human recombinant (**Cat. No. 7371-10, -50**)
- Human CellExp™ CD87, human recombinant (**Cat. No. 7372-20, -100**)
- Human CellExp™ CD360, human recombinant (**Cat. No. 7373-20, -100**)
- Human CellExp™ CD244, human recombinant (**Cat. No. 7374-10, -50**)
- Human CellExp™ CD304, human recombinant (**Cat. No. 7375-10**)
- Human CellExp™ CD319, human recombinant (**Cat. No. 7376-10, -50**)
- Human CellExp™ CD306, human recombinant (**Cat. No. 7377-10, -50**)
- Human CellExp™ CD84, human recombinant (**Cat. No. 7378-10, -50**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**