

## HAVCR2

### Recombinant Human Tim-3:Mouse Fc Chimera

<b>Catalog No.</b>	CRH051	<b>Quantity:</b>	100 µg
<b>Alternate Names:</b>	CD366, HAVcr-2, KIM-3, TIM3, TIMD-3, TIMD3, Tim-3		
<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-3, a type I transmembrane protein, contains an immunoglobulin and a mucin-like domain in its extracellular portion and a tyrosine phosphorylation motif in its cytoplasmic portion. TIM-3 is preferentially expressed on Th1 and Tc1 cells, and generates an inhibitory signal resulting in apoptosis of Th1 and Tc1 cells. TIM-3 is also expressed on some dendritic cells and can mediate phagocytosis of apoptotic cells and cross-presentation of antigen. Tim-3 functions to inhibit aggressive Th1-mediated auto- and alloimmune responses. Tim-3 pathway blockade by administration of Tim-3:Fc fusion protein accelerates diabetes in nonobese diabetic mice, causes hyperproliferation of Th1 cells and Th1 cytokine release in an experimental autoimmune encephalomyelitis (EAE) model and prevents acquisition of transplantation tolerance induced by costimulation blockade.</p> <p>The extracellular domain of human Tim-3 (aa 22-200) is fused to the N-terminus of the Fc region of mouse IgG2a.</p>		
<b>Gene ID:</b>	84868		
<b>Protein Accession No:</b>	NP_116171.3		
<b>Source:</b>	CHO cells		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered solution containing PBS.		
<b>Purity:</b>	≥98% (SDS-PAGE)		
<b>Endotoxin Level:</b>	<0.06 EU/µg purified protein as determined by LAL test (Lonza).		
<b>Biological Activity:</b>	Measured by its binding ability in a functional ELISA.		
<b>Reconstitution:</b>	Reconstitute with 100 µl (1 mg/ml) sterile water. Add 1X PBS to the desired protein concentration.		
<b>Storage &amp; Stability:</b>	Store at 4°C upon arrival and at -20°C for long term. Lyophilized product is stable for at least 1 year after receipt when stored at -20°C. After reconstitution, prepare aliquots and store at -20°C. Stable for up to 3 month at -20°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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