

Biotinylated Human TIM-3/HAVCR2 Protein, Ultra Low Endotoxin



Cat. No. TIM-HM431B-UL

Description	
Source	Recombinant Biotinylated Human TIM-3/HAVCR2 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ser22-Arg200.
Accession	Q8TDQ0-1
Molecular Weight	The protein has a predicted MW of 22.8 kDa. Due to glycosylation, the protein migrates to 45-50 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

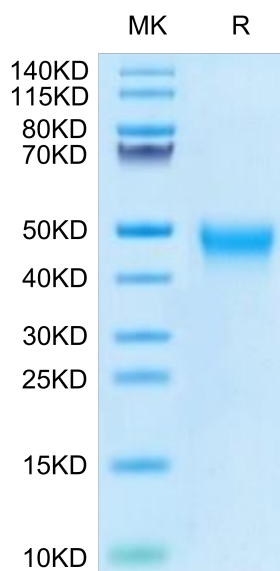
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Hepatitis A virus cellular receptor 2 (HAVCR2), also known as T-cell immunoglobulin and mucin-domain containing-3 (TIM-3), is a protein that in humans is encoded by the HAVCR2 gene. TIM3 is an immune checkpoint and together with other inhibitory receptors including programmed cell death protein 1 (PD-1) and lymphocyte activation gene 3 protein (LAG3) mediate the CD8 T-cell exhaustion. TIM3 has also been shown as a CD4 Th1-specific cell surface protein that regulates macrophage activation and enhances the severity of experimental autoimmune encephalomyelitis in mice.

Assay Data

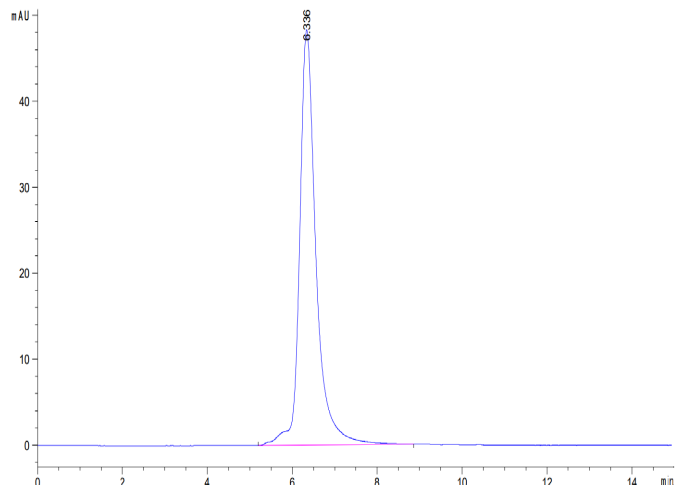
Bis-Tris PAGE



Biotinylated Human TIM-3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

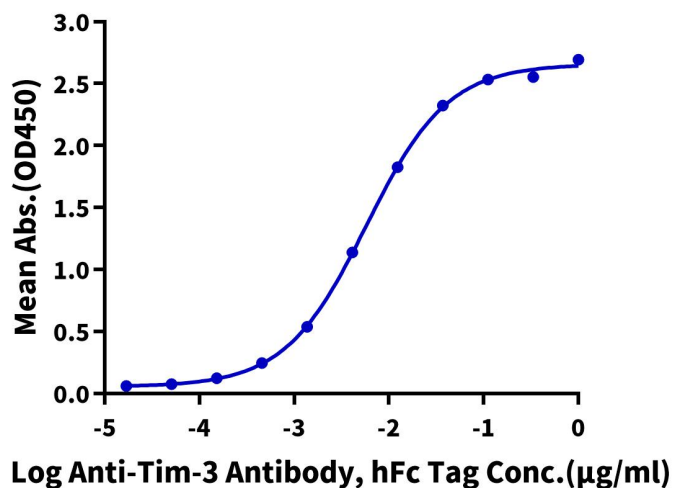


The purity of Biotinylated Human TIM-3 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Biotinylated Human Tim-3, His Avi Tag ELISA

0.05µg Biotinylated Human Tim-3, His Avi Tag Per Well



Immobilized Biotinylated Human Tim-3, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-Tim-3 Antibody, hFc Tag with the EC50 of 5.8ng/ml determined by ELISA.