

Biotinylated Human TIM-3/HAVCR2 Protein

Cat. No. TIM-HM431B

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 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

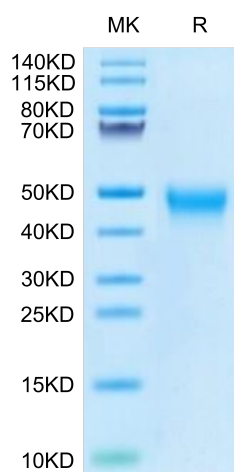
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

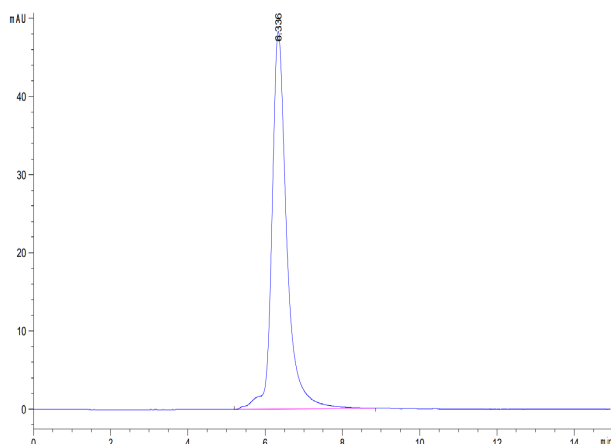
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



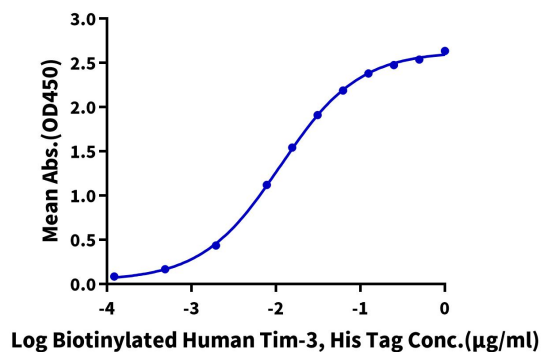
The purity of Biotinylated Human TIM-3 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human Tim-3, His Tag ELISA

0.1µg Anti-Tim-3 Antibody, hFc Tag Per Well



Immobilized Anti-TIM-3 Antibody, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human TIM-3, His Tag with the EC50 of 11.3ng/ml determined by ELISA.