

# Human TIM-4 Protein

Cat. No. TIM-HM104

## Description

<b>Source</b>	Recombinant Human TIM-4 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Glu25-Gln314.
<b>Accession</b>	Q96H15-1
<b>Molecular Weight</b>	The protein has a predicted MW of 32.43 kDa. Due to glycosylation, the protein migrates to 78-98 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

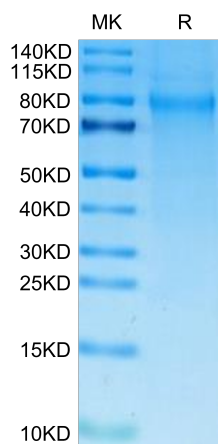
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 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

Tim4 is a transmembrane protein as the phosphatidylserine (PS) receptor, known as T cell immunoglobulin and mucin domain containing protein-4. It is expressed highly in macrophages, and macrophage Tim-4 inhibits inflammation under various conditions of immune activation.

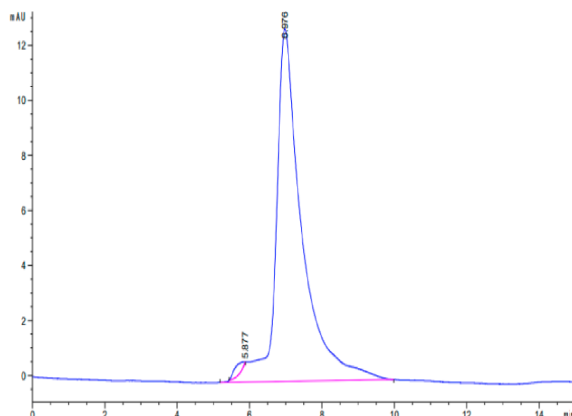
## Assay Data

### Bis-Tris PAGE



Human TIM-4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human TIM-4 is greater than 95% as determined by SEC-HPLC.