

# Human TREM1 Protein

Cat. No. TRM-HM101

## Description

<b>Source</b>	Recombinant Human TREM1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala21-Arg200.
<b>Accession</b>	NP_061113.1
<b>Molecular Weight</b>	The protein has a predicted MW of 21.4 kDa. Due to glycosylation, the protein migrates to 40-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU 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

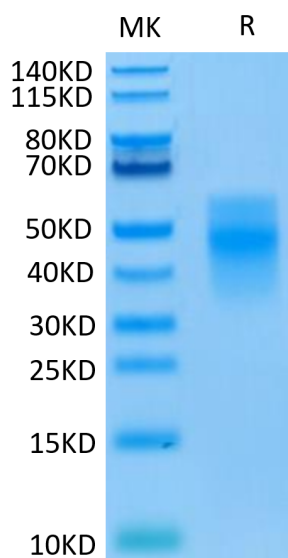
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. 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

TREM1 (Triggering Receptor Expressed on Myeloid Cells 1) is a pro-inflammatory receptor expressed by phagocytes, which can also be released as a soluble molecule (sTREM1). The roles of TREM1 and sTREM1 in liver infection and inflammation are not clear.

## Assay Data

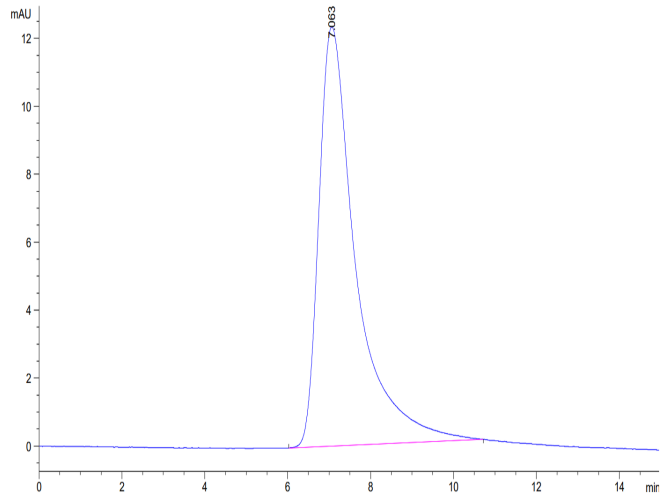
### Bis-Tris PAGE



Human TREM1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

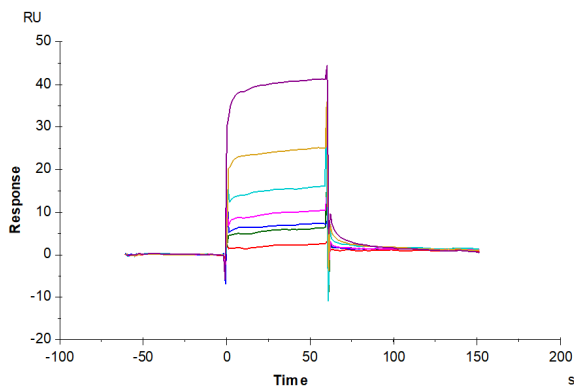
### SEC-HPLC

Assay Data



The purity of Human TREM1 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human PGLYRP1, hFc Tag captured on CM5 Chip via Protein A can bind Human TREM1, His Tag with an affinity constant of 17.39  $\mu$ M as determined in SPR assay (Biacore T200).