Human TREM-1 / CD354 Protein, Fc Tag

Catalog # TR1-H5251

Synonym

TREM1,CD354

Source

Human TREM-1, Fc Tag(TR1-H5251) is expressed from human 293 cells (HEK293). It contains AA Ala 21 - Arg 200 (Accession # Q9NP99-1). Predicted N-terminus: Ala 21

Molecular Characterization

TREM-1(Ala 21 - Arg 200) Q9NP99-1	Fc(Pro 100 - Lys 330) P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 46.7 kDa. The protein migrates as 55-66 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

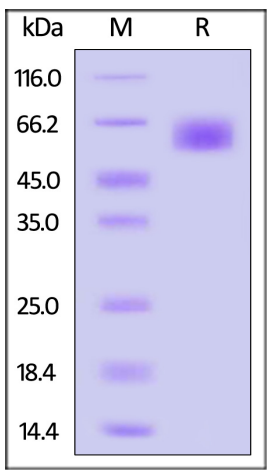
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

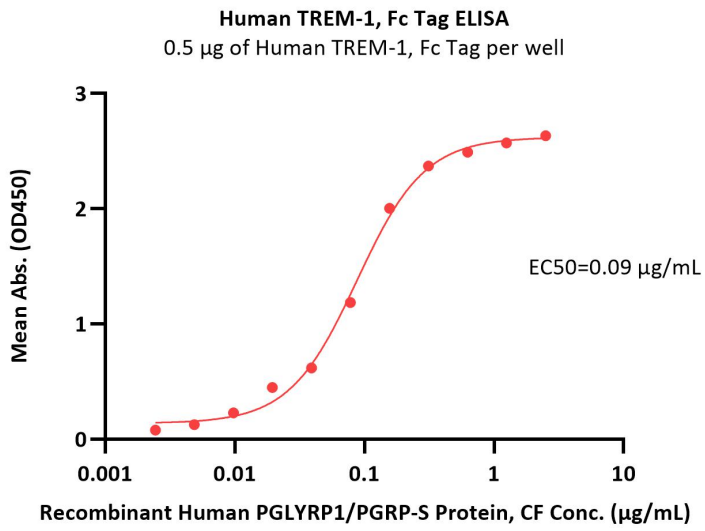
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



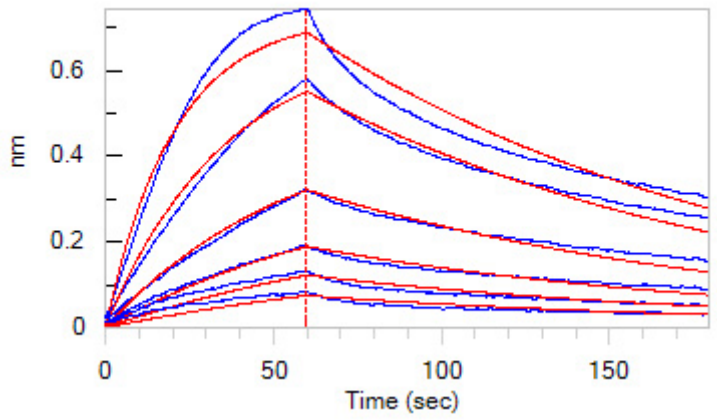
Human TREM-1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Immobilized Human TREM-1, Fc Tag (Cat. No. TR1-H5251) at 5 μg/mL (100 μL/well) can bind Recombinant Human PGLYRP1/PGRP-S Protein, CF with a linear range of 0.002-0.156 μg/mL (Routinely tested).

Bioactivity-BLI



Loaded Human TREM-1, Fc Tag (Cat. No. TR1-H5251) on Protein A Biosensor, can bind Recombinant Human PGLYRP1/PGRP-S Protein, CF with an affinity constant of 18.5 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

Triggering receptor expressed on myeloid cells 1 (TREM1) is also known as CD antigen CD354, and is a type I transmembrane protein with a single Ig-like domain. TREM1 is highly expressed in adult liver, lung and spleen than in corresponding fetal tissue. TREM-1 / CD354 stimulates neutrophil and monocyte-mediated inflammatory responses, and also triggers release of pro-inflammatory chemokines and cytokines, as well as increased surface expression of cell activation markers. Amplifier of inflammatory responses that are triggered by bacterial and fungal infections and is a crucial mediator of septic shock. TREM1 can interacts with TYROBP / DAP12.