

For Research Use Only

# Recombinant Human TREM-1/CD354 protein (rFc Tag)



Catalog Number: Eg1439

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human TREM-1 protein Ala21-Arg200 (Accession# Q9NP99-1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
54210

**Accession:**  
Q9NP99-1

**Predicted Molecular Mass:**  
46.5 kDa

**SDS-PAGE:**  
48-60 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Triggering receptor expressed on myeloid cells 1 (TREM1, also known as CD354) is a member of the immunoglobulin superfamily, which is expressed on neutrophils and monocytes. TREM1 plays a role in the innate immune system. TREM1 amplifies neutrophil and monocyte-mediated inflammatory responses triggered by bacterial and fungal infections by stimulating release of pro-inflammatory chemokines and cytokines, as well as increased surface expression of cell activation markers. TREM1 can also exist as a soluble form (sTREM1). Increased plasma level of sTREM1 have been reported in specific diseases including Alzheimer's disease, systemic sepsis, acute myocardial infarction and subarachnoid hemorrhage.

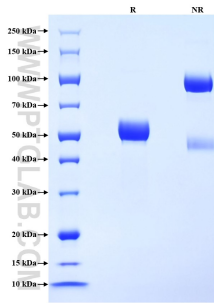
## References

1. Bouchon A. et al. (2000). J Immunol. 164(10):4991-4995.
2. Gibot S. et al. (2004). Ann Intern Med. 141(1):9-15.
3. Palazzo SJ. et al. (2012). Dimens Crit Care Nurs. 31(1):1-6.
4. Jiang T. et al. (2019). Aging Clin Exp Res. 31(12):1801-1805.

## Synonyms

TREM1, CD354, TREM 1

## Selected Validation Data



Purity of Recombinant Human TREM-1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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