

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/μg 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 μm 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

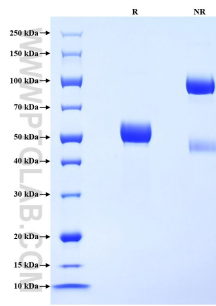
TREM1, CD354, TREM 1

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

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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.