

# Recombinant human TREM2 protein

Catalog Number: ATGP4104

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

19-174aa

### UniProt No.

Q9NZC2

### NCBI Accession No.

NP\_061838.1

### Alternative Names

triggering receptor expressed on myeloid cells 2 isoform 1, triggering receptor expressed on myeloid cells 2, triggering receptor expressed on myeloid cells 2a, TREM-2, Trem2a, Trem2b, Trem2c

## PRODUCT SPECIFICATION

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### Molecular Weight

18.2kDa (162aa)

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

TREM2, also known as Triggering receptor expressed on myeloid cells 2 isoform 1, is a membrane protein that forms a receptorsignaling complex with the TYRO protein tyrosine kinase binding protein. This protein is found in immune cells termed myeloid cells, which include macrophages, granulocytes, monocytes, and dendritic cells. It

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functions in immune response and maybe involved in chronic inflammation by triggering the production of constitutive inflammatory cytokines. It also promotes the differentiation and function of osteoclasts, the production of inflammatory cytokines by adipocytes, insulin resistance, and the phagocytic clearance of bacteria. Defects in TREM2 are a cause of polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy (PLOS). In addition, TREM2 is overexpressed in many tumor types and has anti-inflammatory activities. It might therefore be a good therapeutic target. Recombinant human TREM2, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

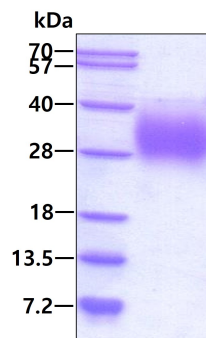
HNTTVFQGVA GQSLQVSCP YDSMKHWGRRK AWCQRQLGEGK PCQRVVSTHN LWLLSFLRRW NGSTAITDDT LGGTLTITLR  
NLQPHDAGLY QCQSLHGSEA DTLRKVLVEV LADPLDHRDA GDLWFPGESE SFEDAHVEHS ISRSLLEGEI PFPPTS<HHHH  
HH>

## General References

Bouchon A., et al (2000). J. Immunol. 164:4991-4995.  
N' Diaye EN, et al.(2009). J Cell Biol. 184:215-223.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain